

Figure 1

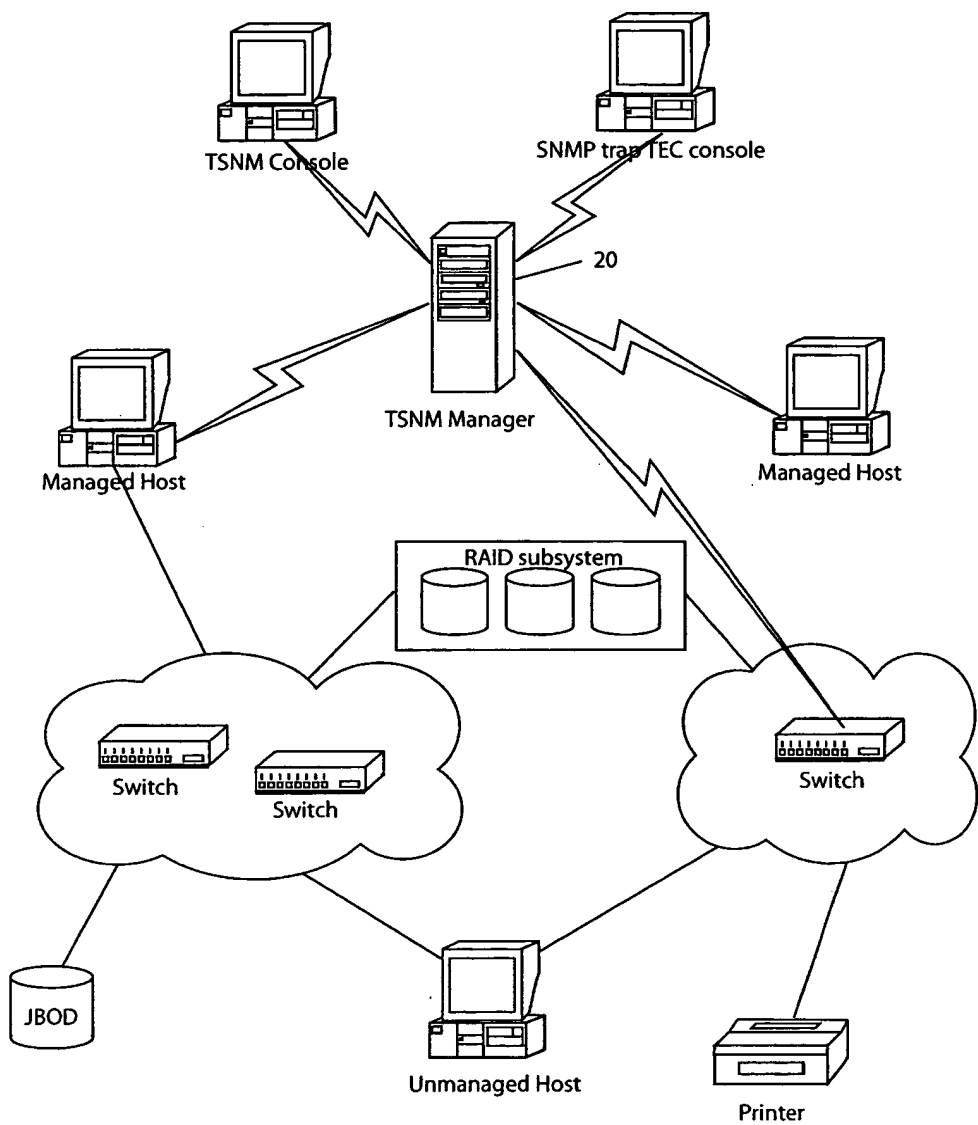


Figure 2

IBM CORPORATION

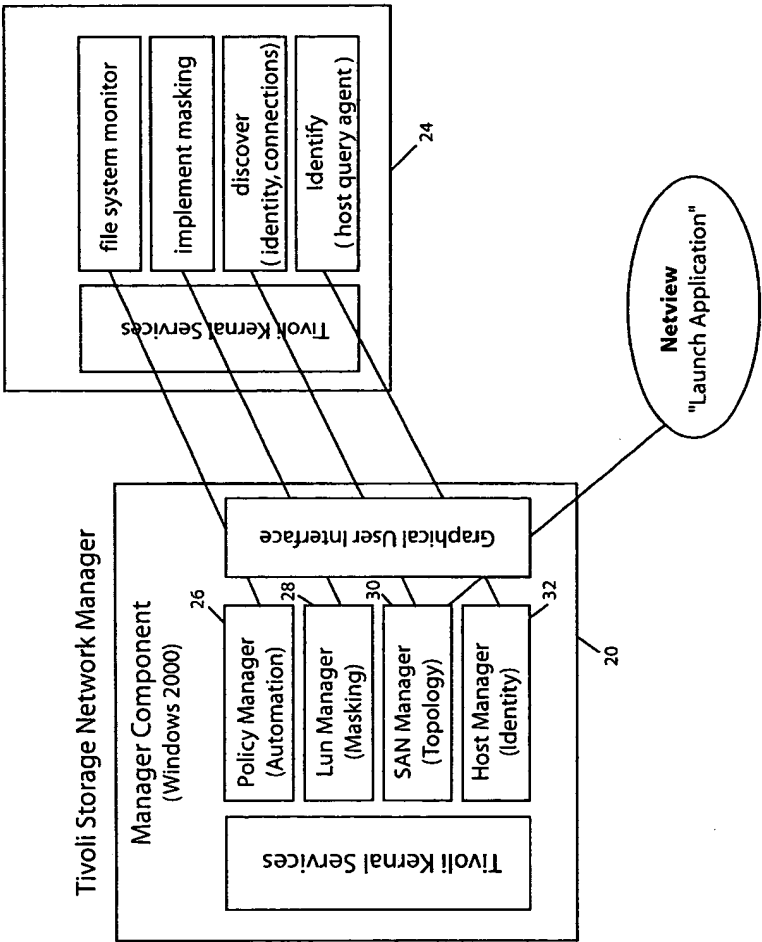


Figure 3

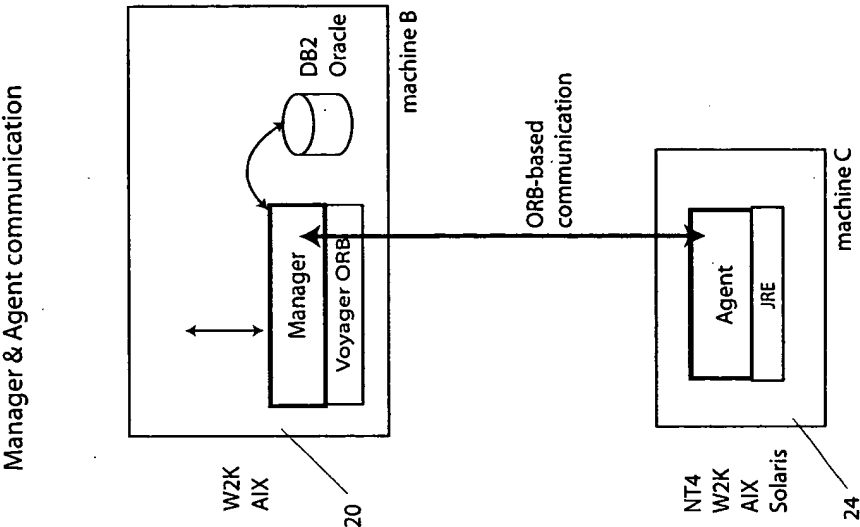


Figure 4

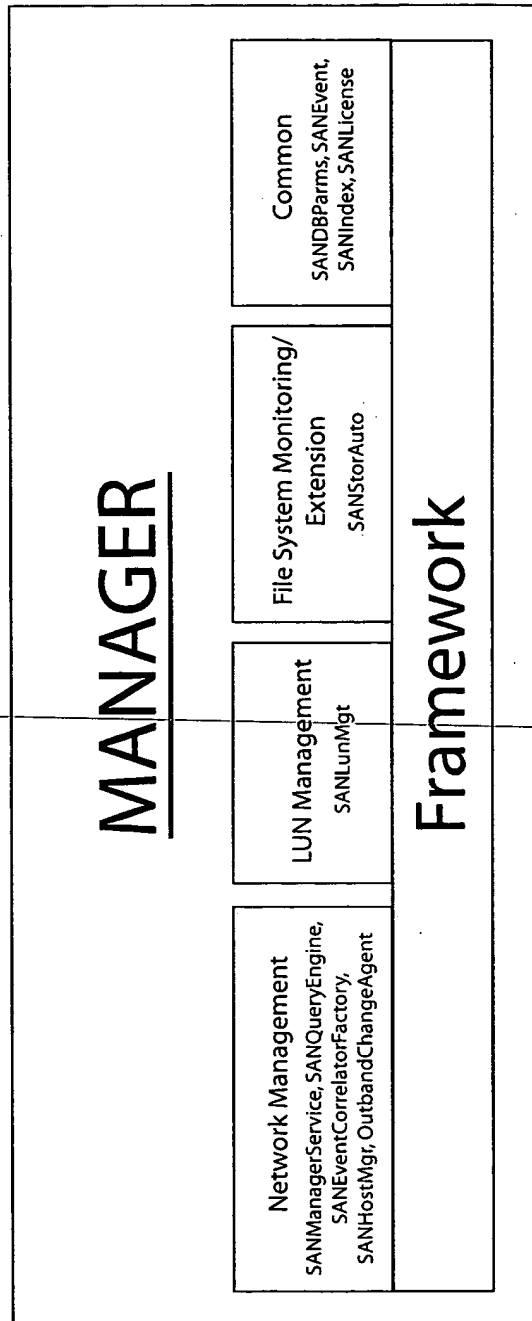
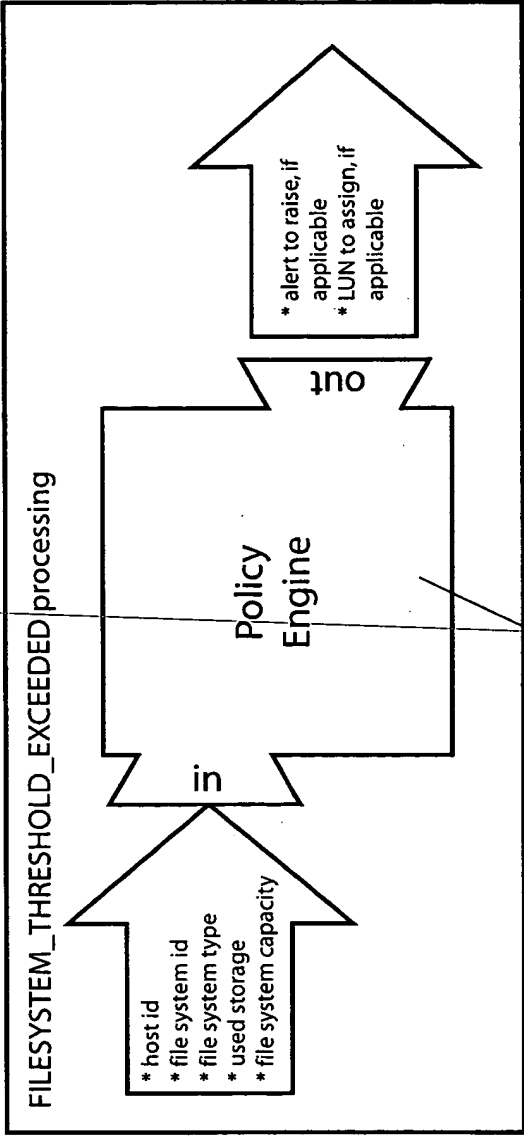


Figure 5



FILESYSTEM_THRESHOLD_EXCEEDED



38a

Figure 7A

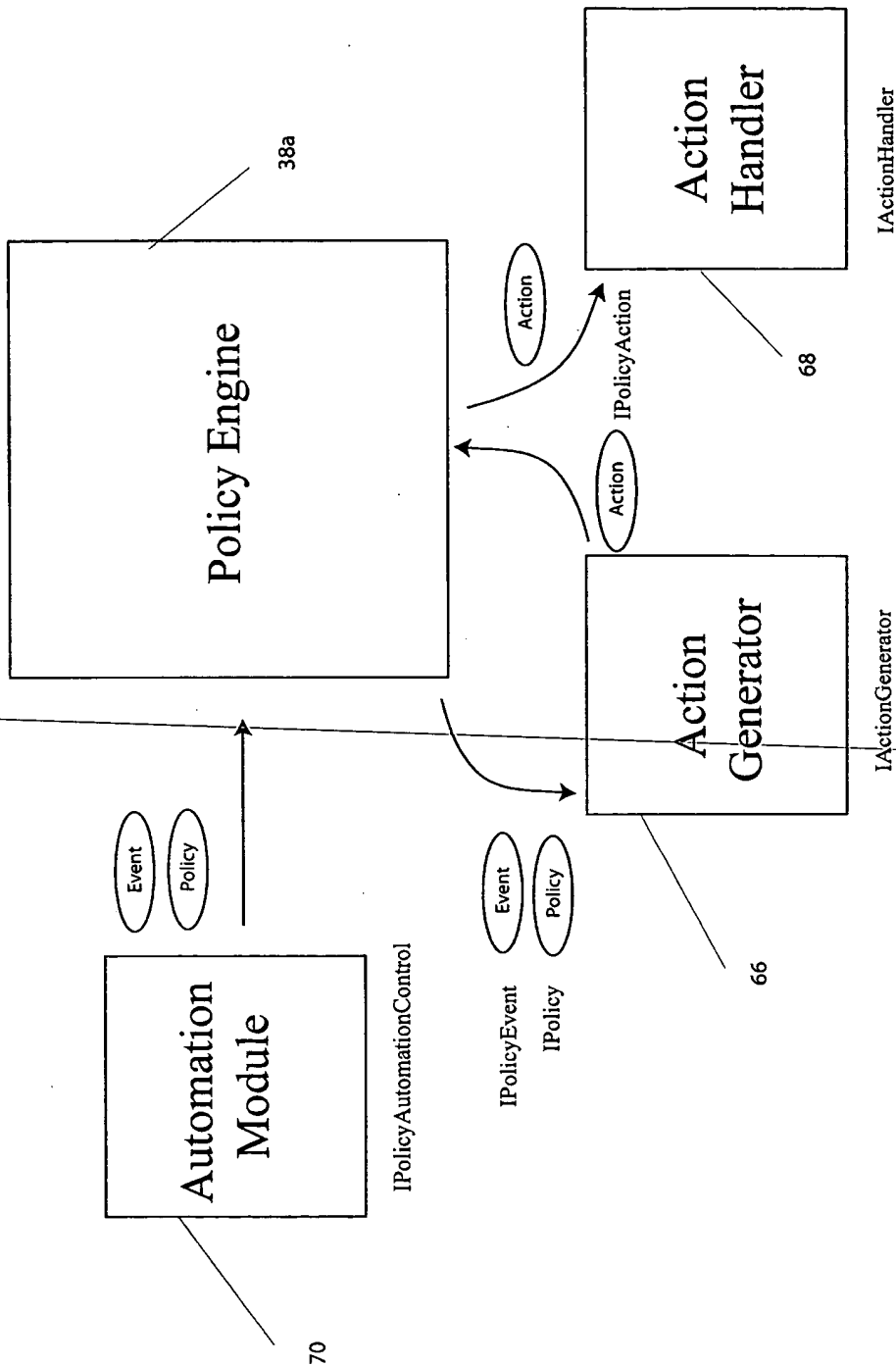


Figure 7B

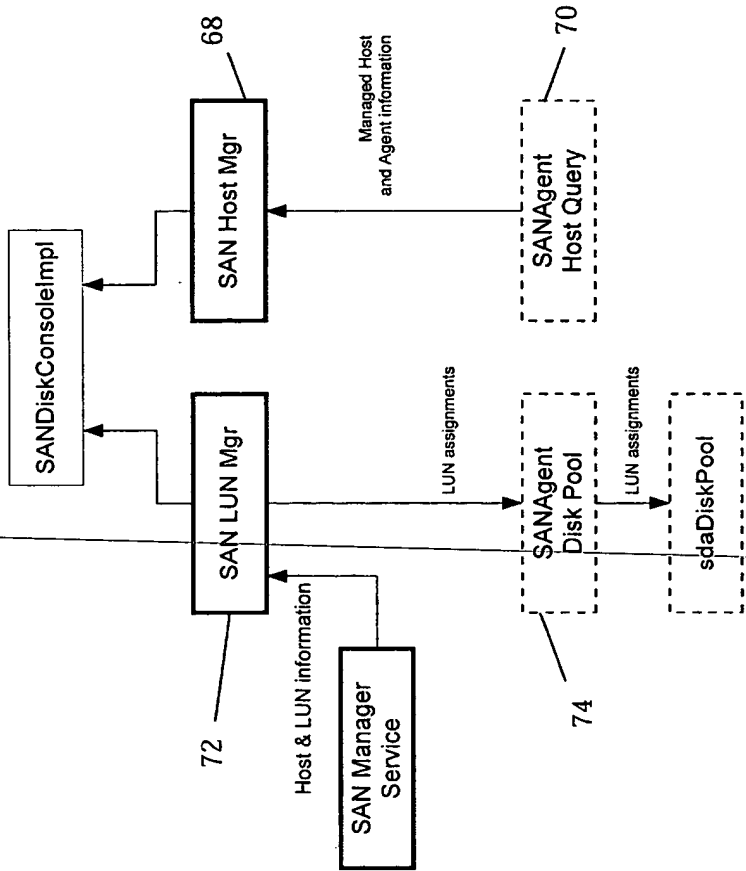


Figure 8

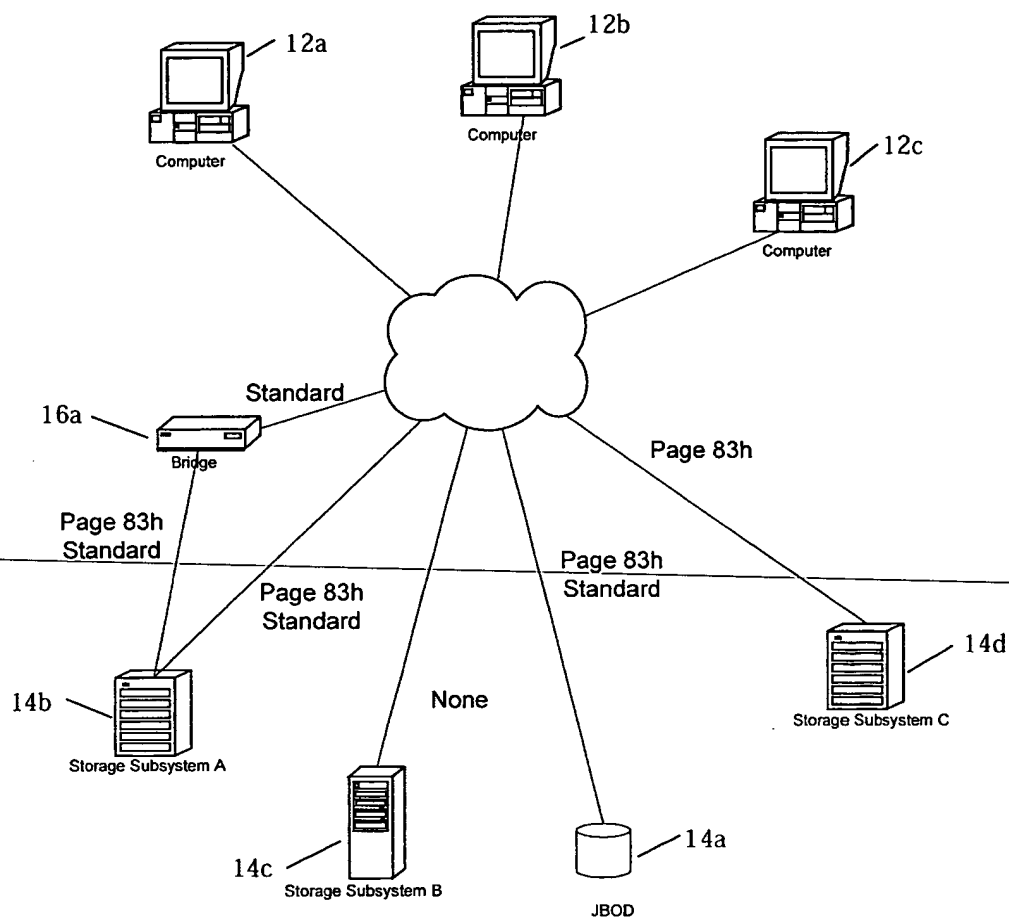
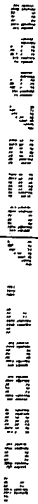


Figure 9

1. The first step is to identify the problem or goal. This involves understanding the current situation, identifying the problem, and setting a clear goal.



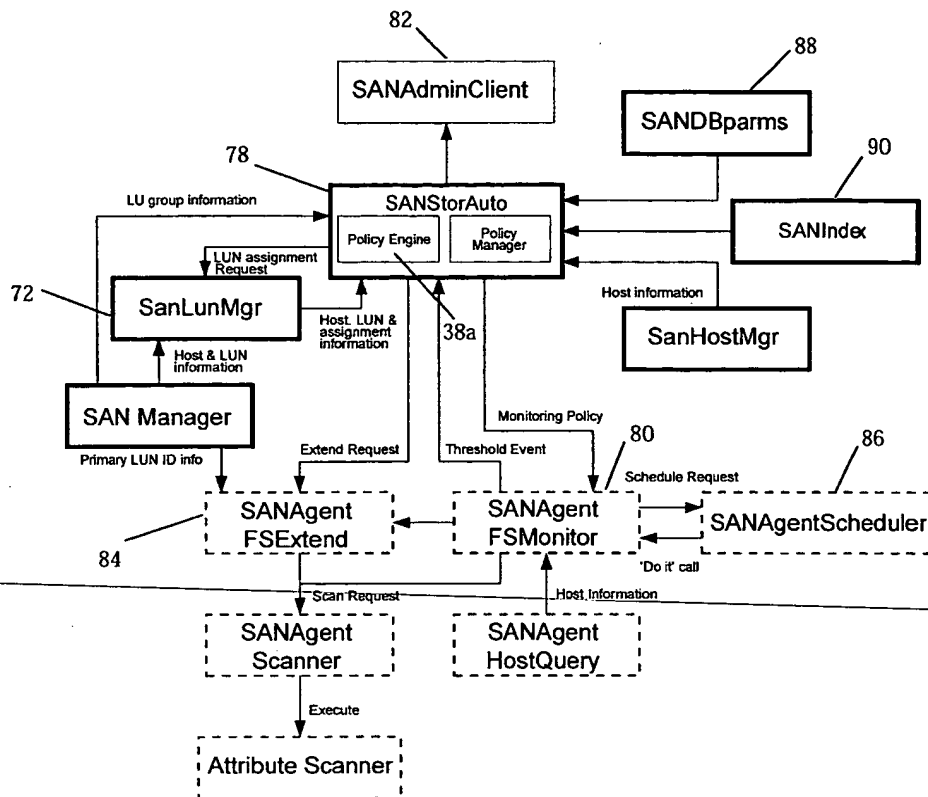


Figure 11

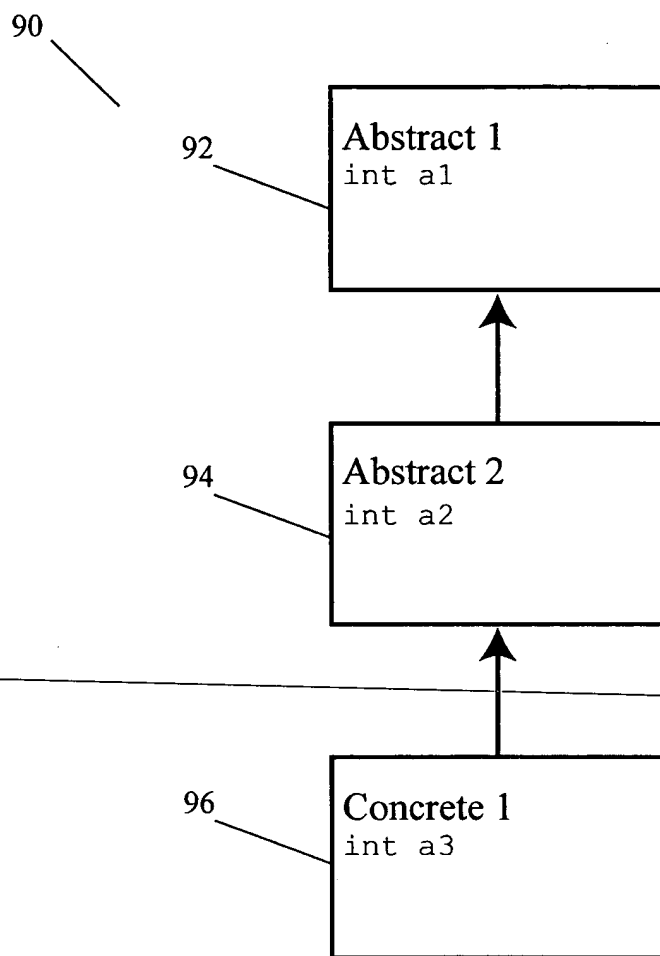


Figure 12

FIG. 13

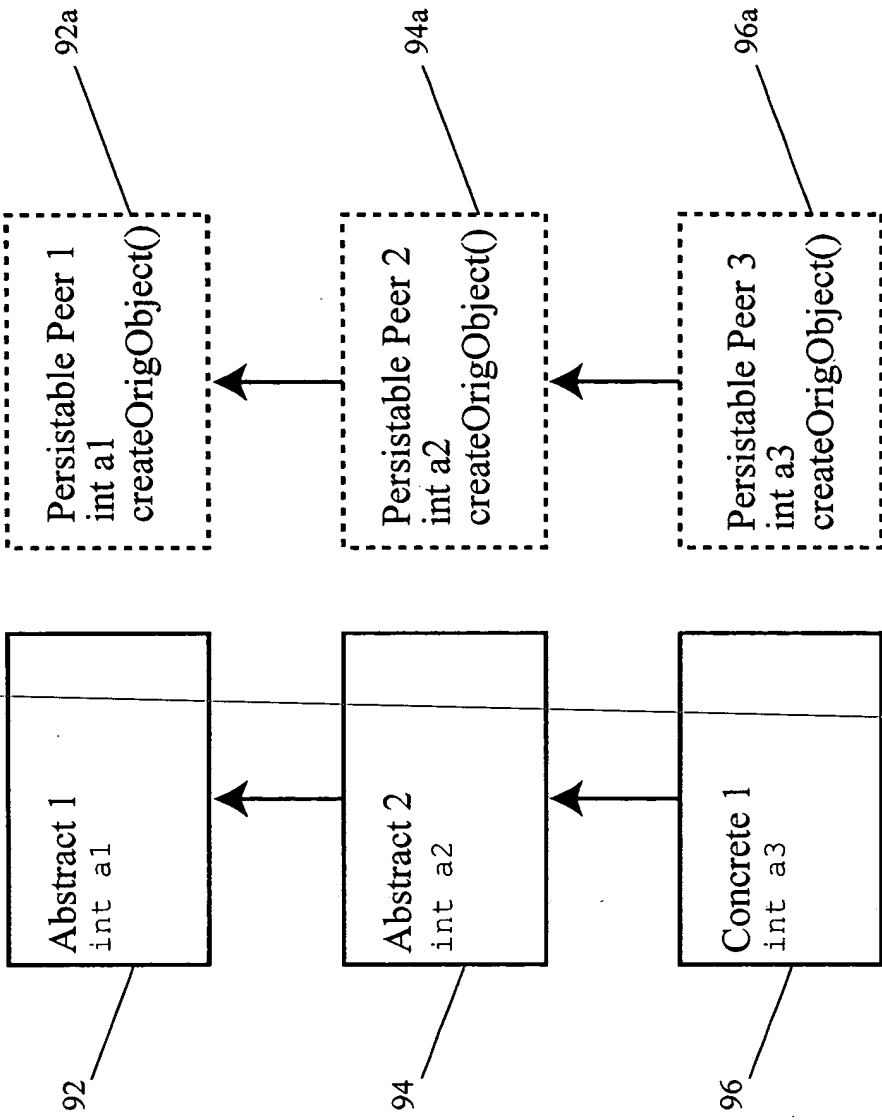


Figure 13

Figure 14a

Figure 14b

Figure 14c

Figure 14d

FOIA b 7 - D

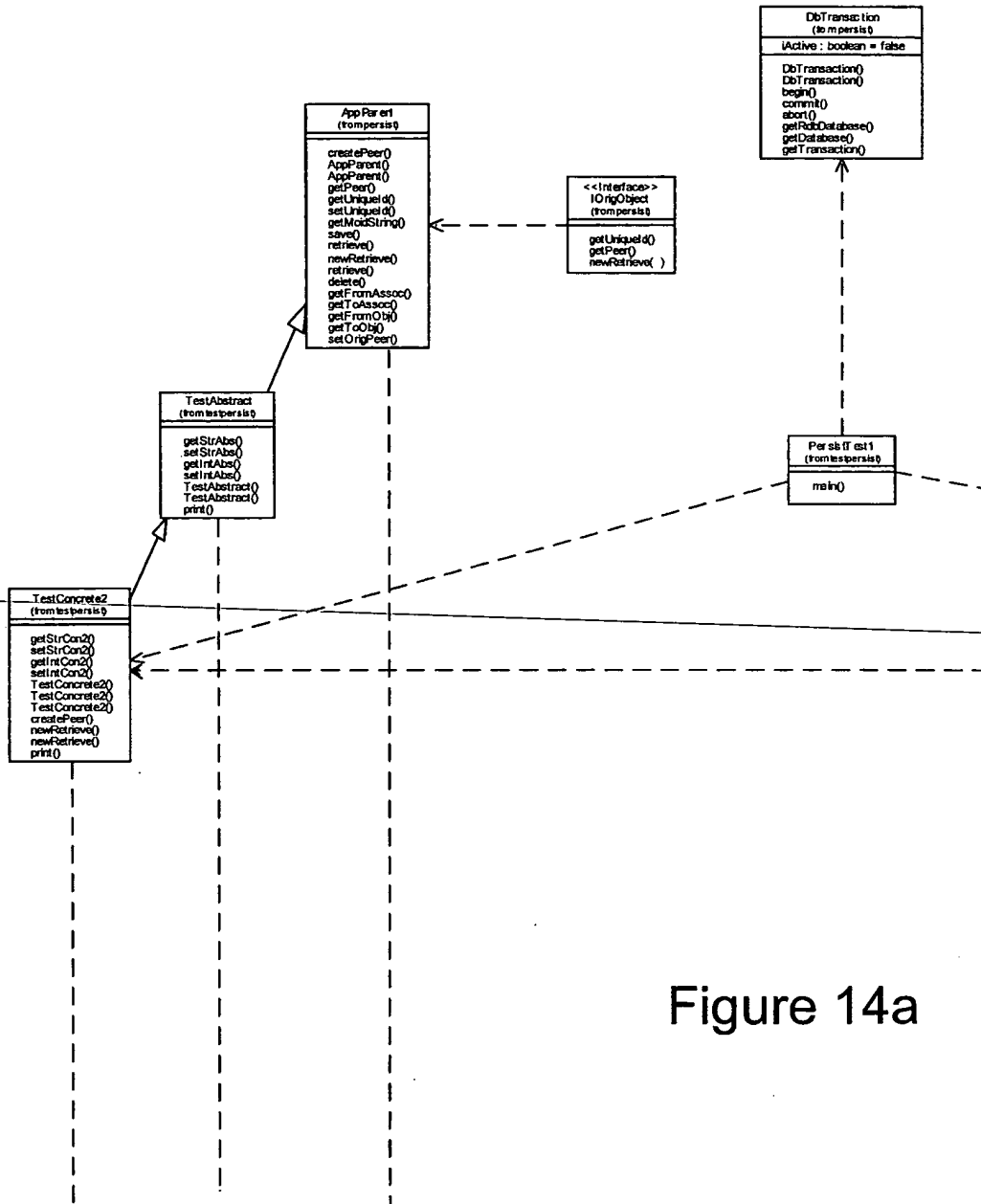


Figure 14a

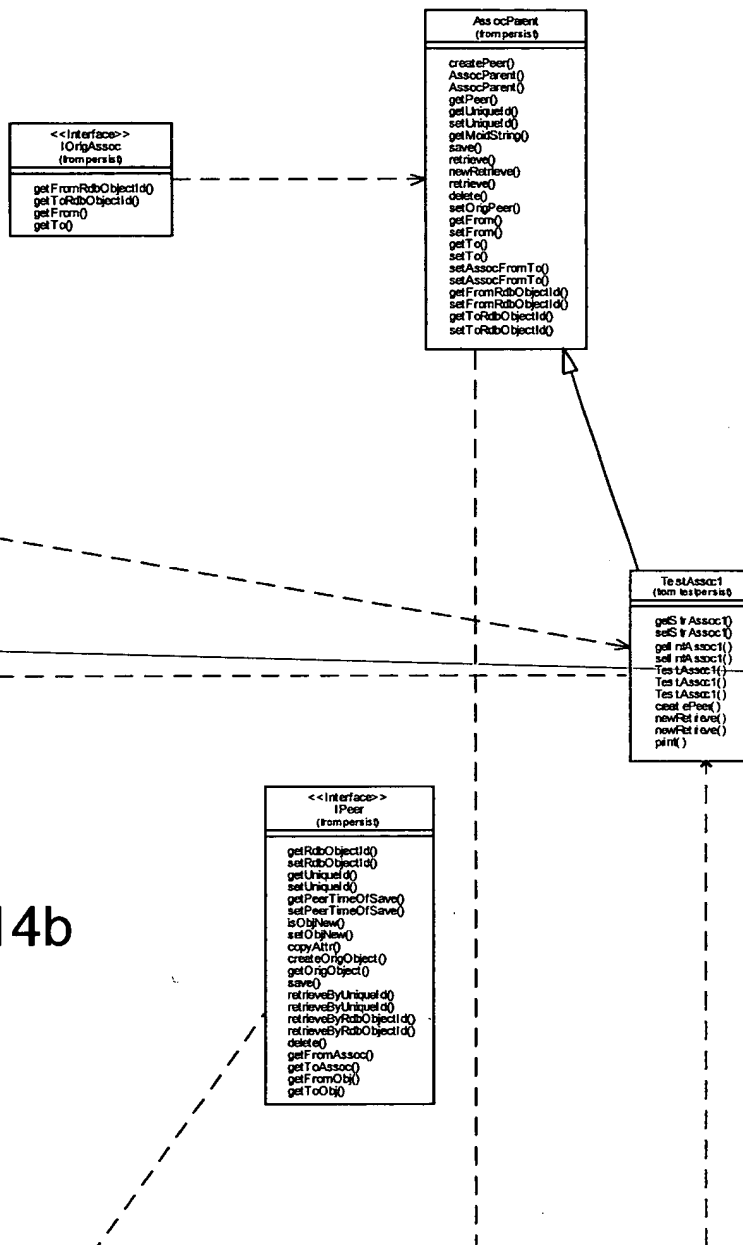


Figure 14b

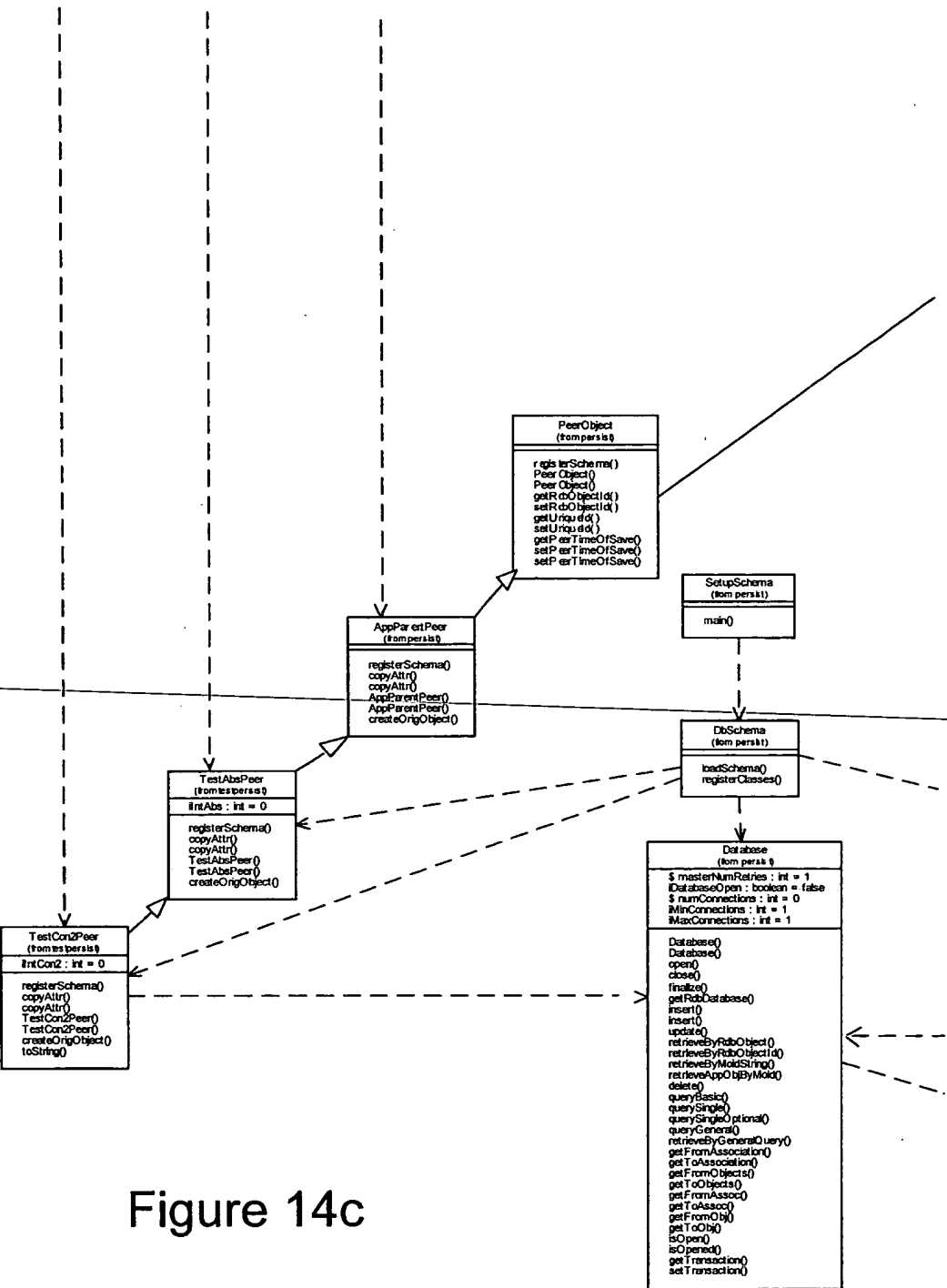


Figure 14c

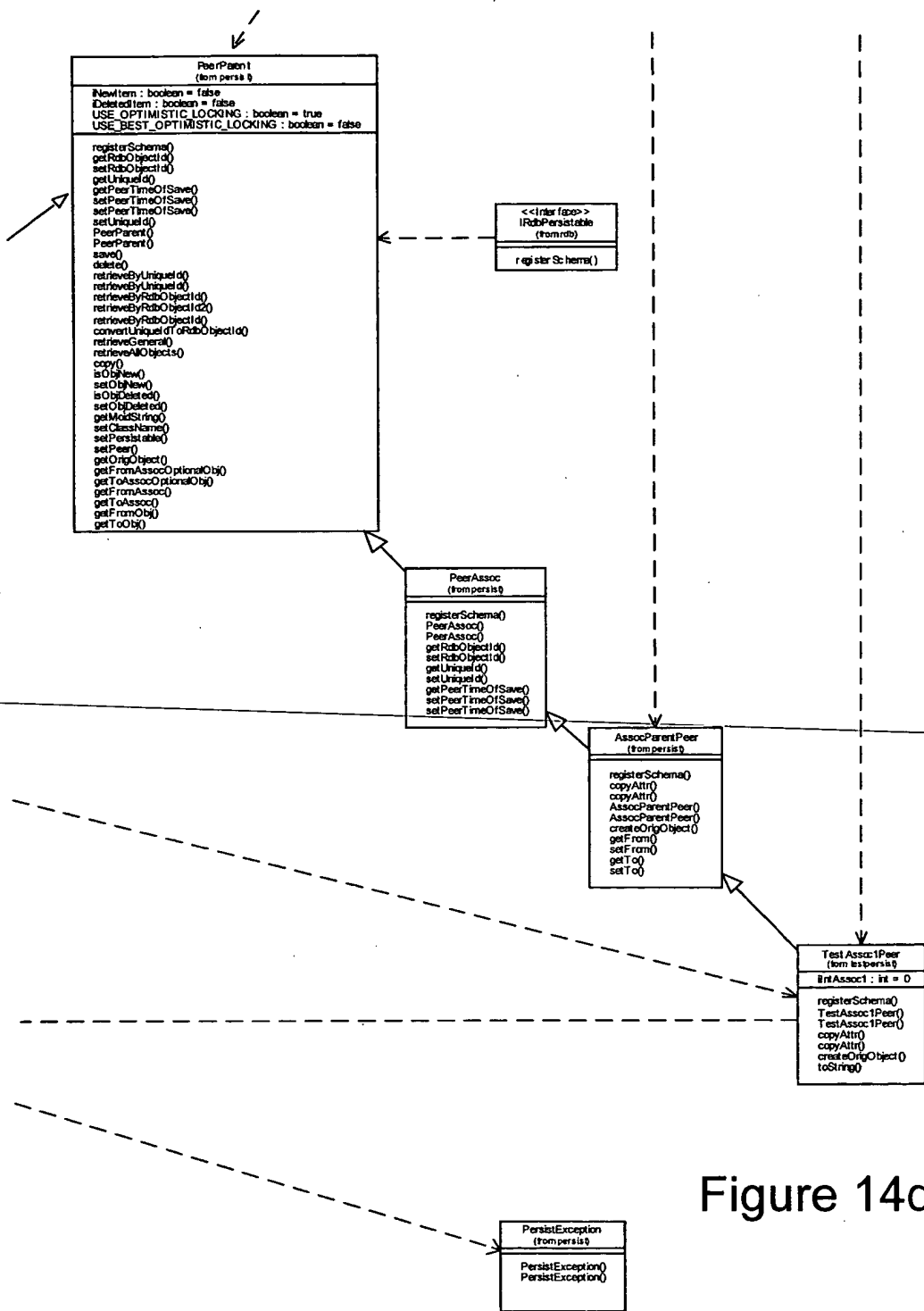
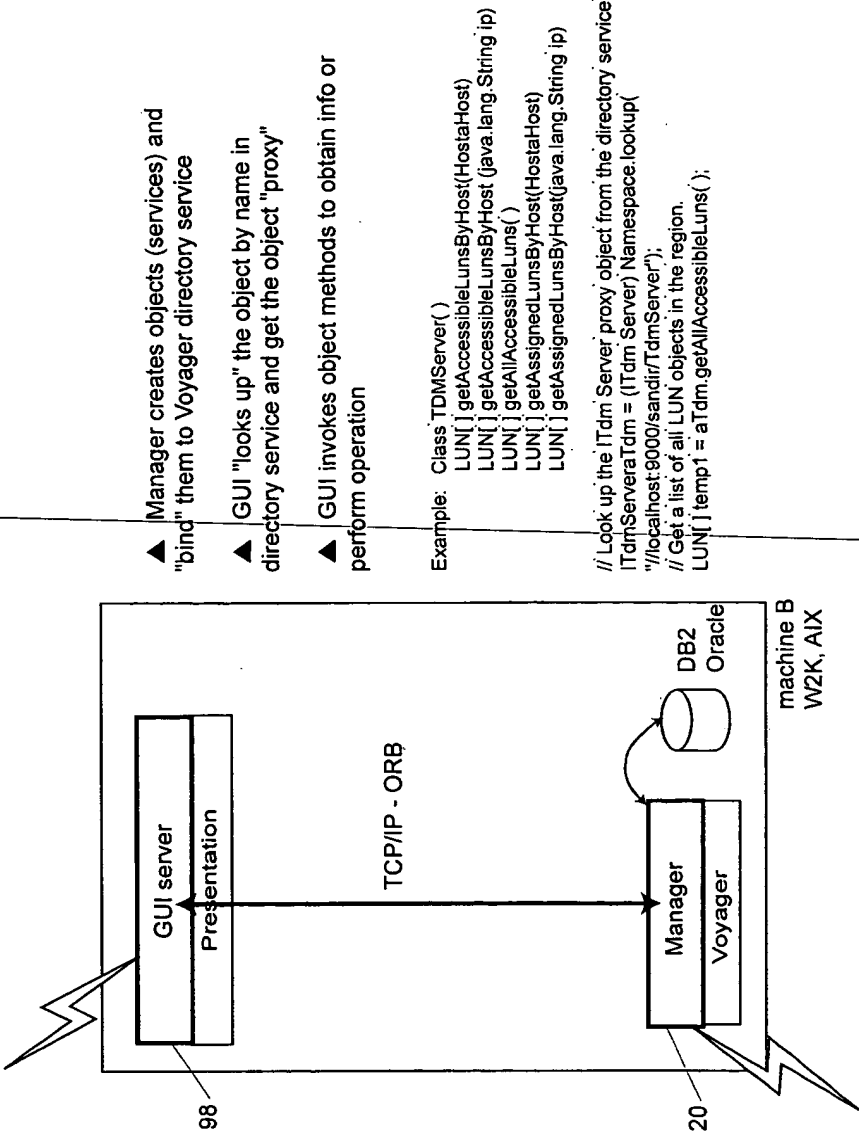


Figure 14d

GUI (server) & Manager communication



- ▲ Manager creates objects (services) and "bind" them to Voyager directory service
- ▲ GUI "looks up" the object by name in directory service and get the object "proxy"
- ▲ GUI invokes object methods to obtain info or perform operation

```
Example: Class TDMServer()  
LUN[] getAccessibleLunsByHost(HostaHost)  
LUN[] getAccessibleLunsByHost (java.lang.String ip)  
LUN[] getAccessibleLuns()  
LUN[] getAssignedLunsByHost(HostaHost)  
LUN[] getAssignedLunsByHost(java.lang.String ip)  
  
// Look up the ITdm Server proxy object from the directory service  
ITdmServerTdm = (ITdm Server) Namespace.lookup(  
    "localhost:9000/sandir/TdmServer");  
// Get a list of all LUN objects in the region.  
LUN[] temp1 = aTdm.getAccessibleLuns( );
```

Figure 15

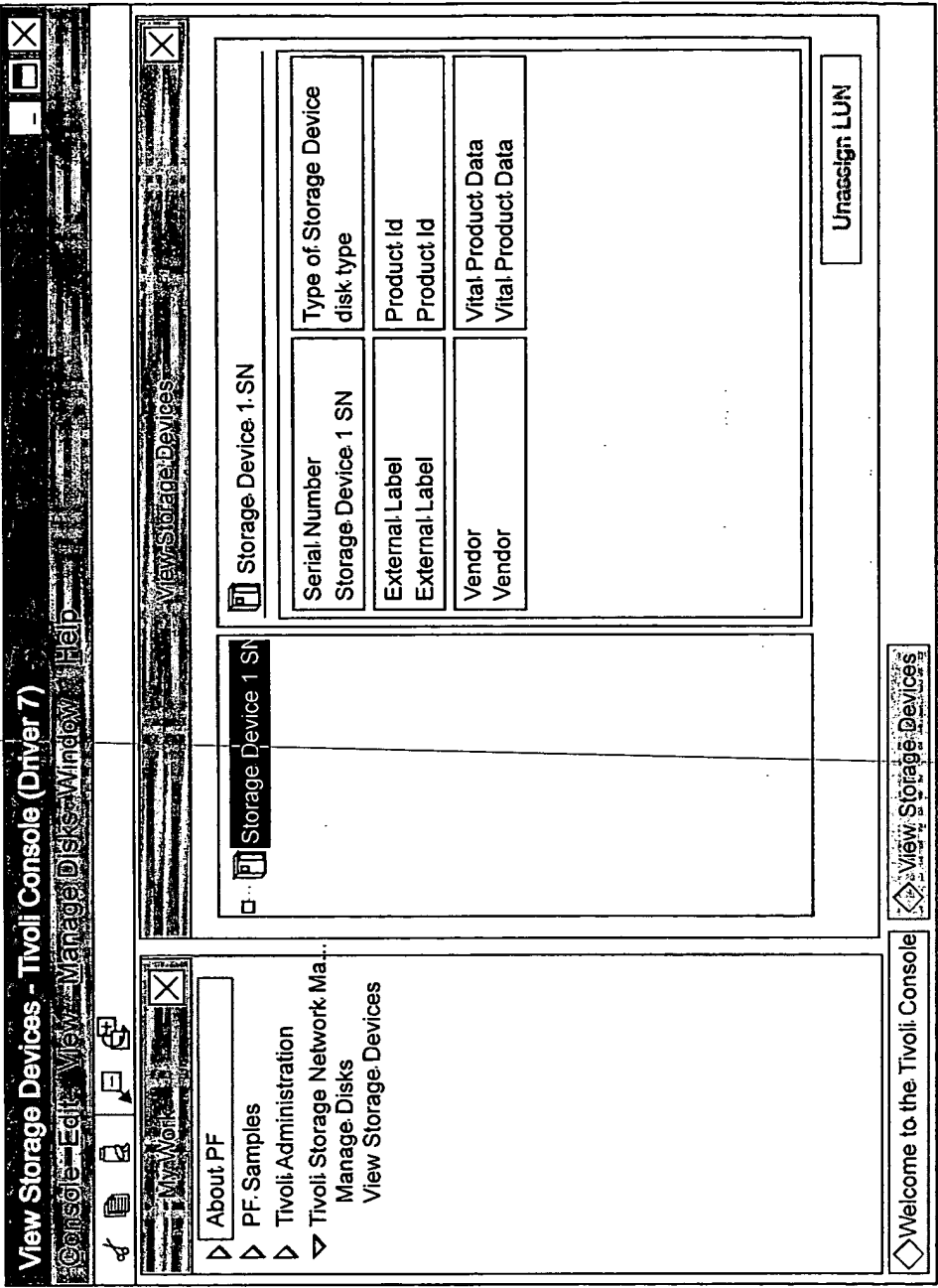


Figure 16

FOOT 202260

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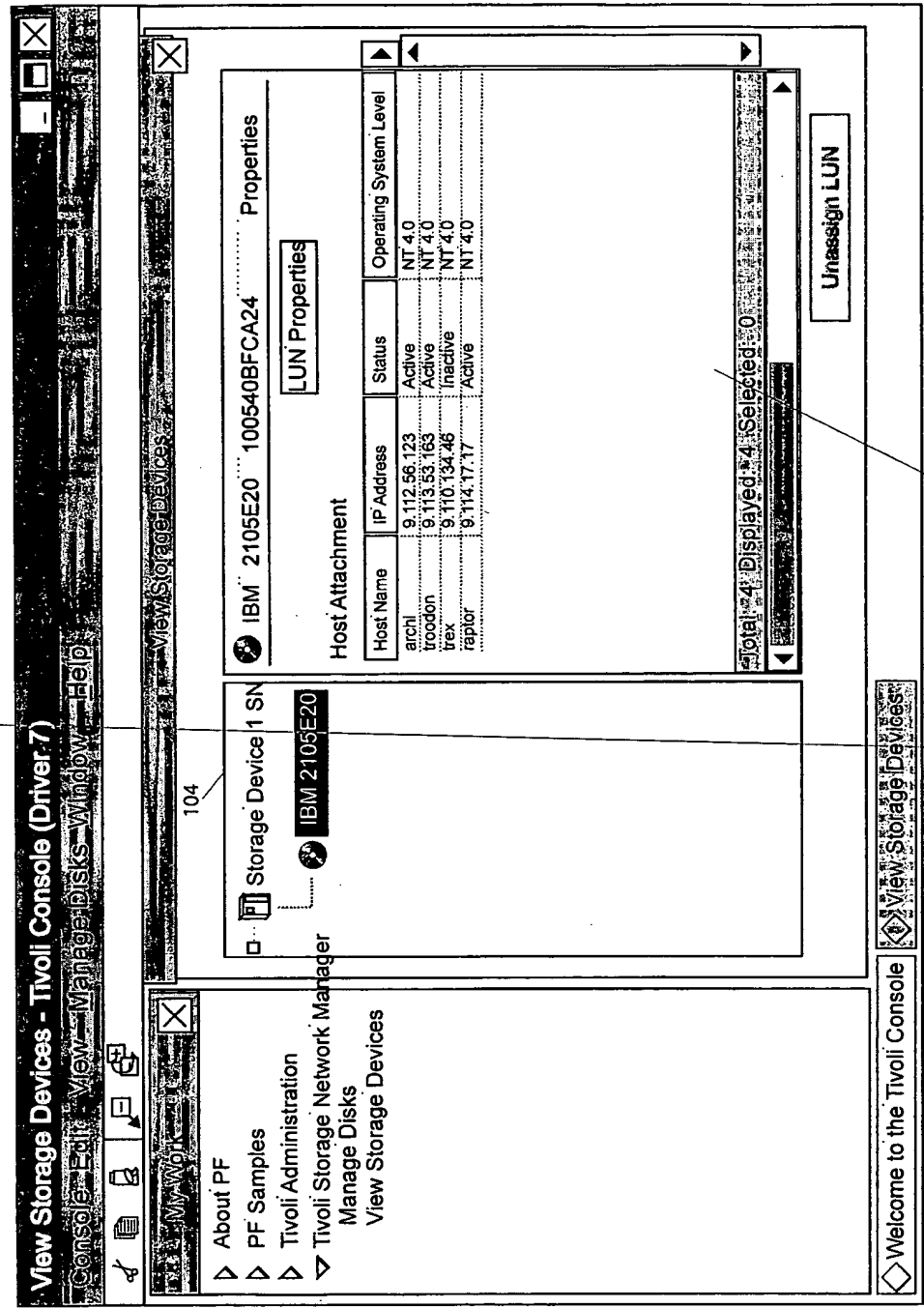


Figure 17

106

108

Manage Disks - Tivoli Console (Driver 7)
Console Edit View Manage Disks Window Help
Manage Disks

archi
troodon
trex
raptor

Host IP Address is 9.112.56.123
archi Properties

Accessible LUNs
Capacity In MBs
Vendor Product Revision Unit Number Status Assigned To
4875 UNISYS 006073ST191 1901 LAC86200
10500 UNISYS 006073ST191 1901 LAD88390
22345 IBM 2105E20 1005 40BFCA20
22345 IBM 2105E20 1005 40CFCA20
22345 IBM 2105E20 1005 40BFCA34
22345 IBM 2105E20 1005 40DFCA34
22345 IBM 2105E20 1005 40BFCA25
22345 IBM 2105E20 1005 40CFCA25
8520 EMC SYMMETRIX 5285 370127202
4875 EMC SYMMETRIX 5285 370281202
4875 SEAGATE ST1971FC CC85 LAM14520
10500 UNISYS 39-BYTES-LO 901L AC68903
22345 UNISYS 39-BYTES-LO 1901 ?
22345 IBM 2105E30 1005 40BFCA24
8520 IBM 2105E20 1005 40CFCA24
8520 EMC SYMMETRIX 5285 37012720C
Total 19 displayed, 19 selected

Assign LUN Unassign LUN Reassign LUN
Manage Disks
View Storage Devices
Welcome to the Tivoli Console

- 112a archi
- 112b troodon
- 112c trex
- 112d raptor

110

114

Figure 18

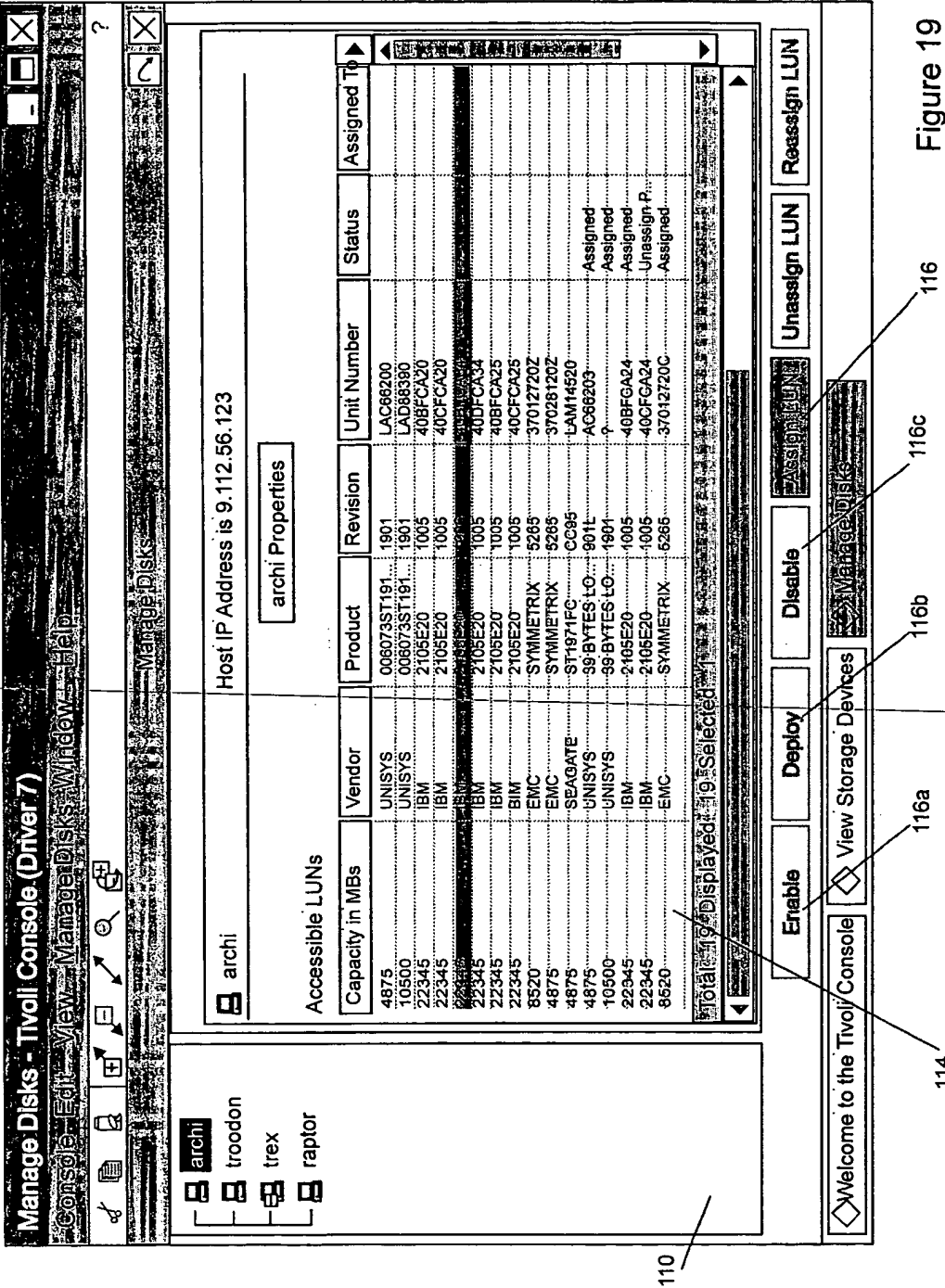


Figure 19

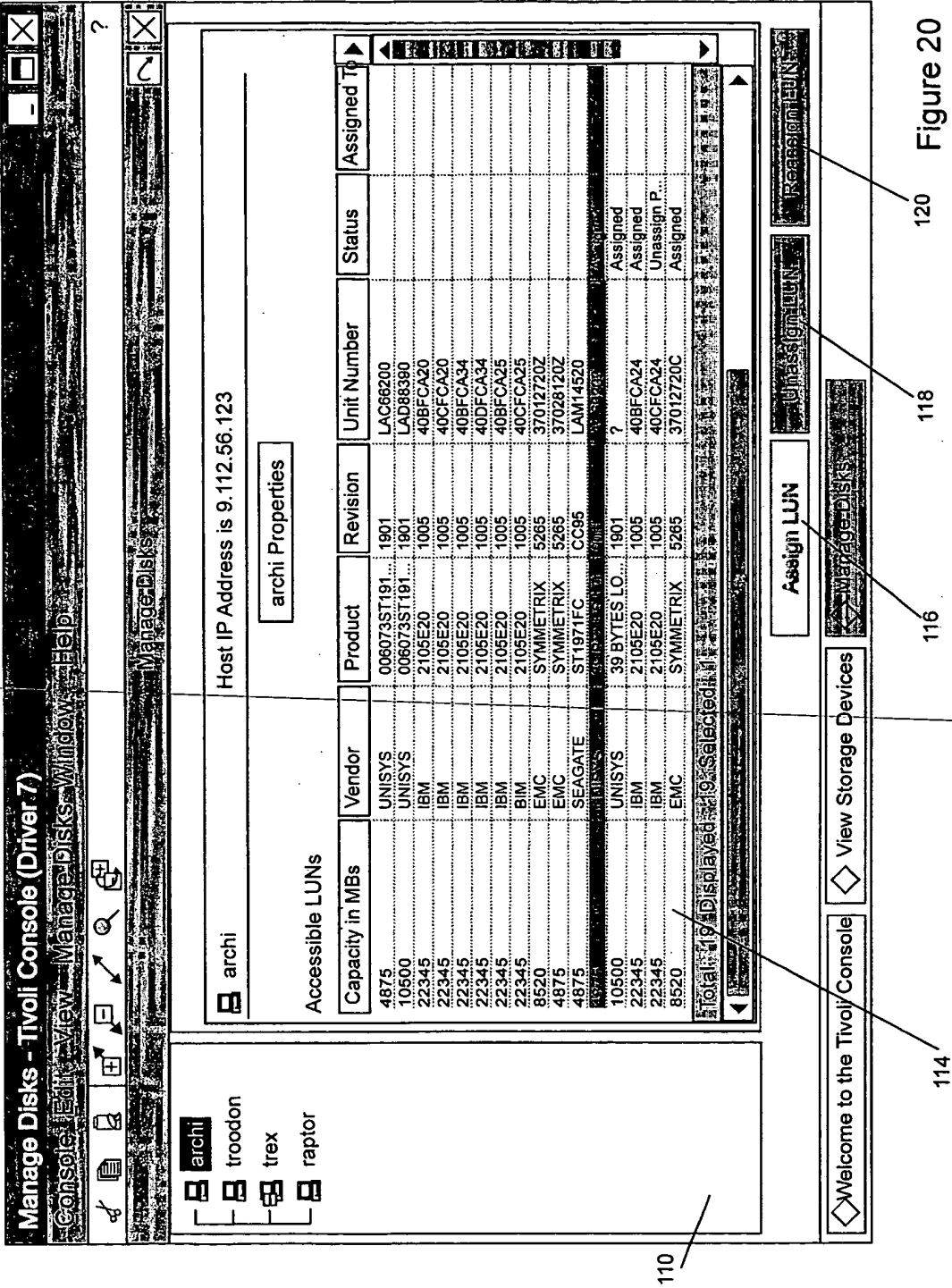


Figure 20

Clearing the Filter

Manage Disks - Tivoli Console (Driver 7)
Console Edit View Manage Disk Window Help

archi troodon trex raptor vega

Host IP Address is 9.112.56.123

Host Properties

Accessible LUNs

Capacity in MBs	Vendor	Product	Revision	Unit Number	Status	Assigned To Other	Logical Unit
22,345	IBM	2105E20	1005	40CFCAC24	Unassign Pending	<no filter>	LU group1
10,500	UNISYS	006073ST191	1901	LAD88397	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40BFCAC24	Assigned	<no filter>	LU group1
8,520	EMC	SYMMETRIX	5285	37012720C	Assigned	<no filter>	LU group1
10,500	UNISYS	006073ST191	1901	LAD88390	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40BFCAC20	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40CFCAC34	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40DFCAC34	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40BFCAC25	Assigned	<no filter>	LU group1
22,345	IBM	2105E20	1005	40CFCAC25	Assigned	<no filter>	LU group1
8,520	EMC	SYMMETRIX	5285	37012720Z	Assigned	<no filter>	LU group1

Assign LUN

Unassign LUN

Reassign LUN

122

122

Figure 21

Custom Filtering

Manage Disks - Tivoli Console (Driver.7)

Console Edit View Manage Disks Window Help

archi troodon trex raptor vega

Host Properties

Host IP Address is 9.112.56.123

Accessible LUNs

Capacity In MBs

5000

At least At most

OK

Manufacturer	Model	Capacity	Unit Number	Status	Assigned To Other	Logical Unit
EMC	SYMMETRIX 5265	10,500	40CFC24	Unassign Pending	<no filter>	<no filter>
EMC	SYMMETRIX 5265	22,345	LAC66203	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	LAD88397	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	40BFC24	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	37012720C	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	37028120C	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	37028120C	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	LAM14528	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	LAC66200	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	LAD88390	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	40BFC20	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	40CFC20	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	40BFC34	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	40DFCA34	Assigned	<no filter>	LU group1
EMC	SYMMETRIX 5265	4,875	37012720Z	Assigned	<no filter>	LU group1

Total 19 Disks Displayed 19 Selected 0

Welcome

Assign LUN

Unassign LUN

Reassign LUN

Figure 22

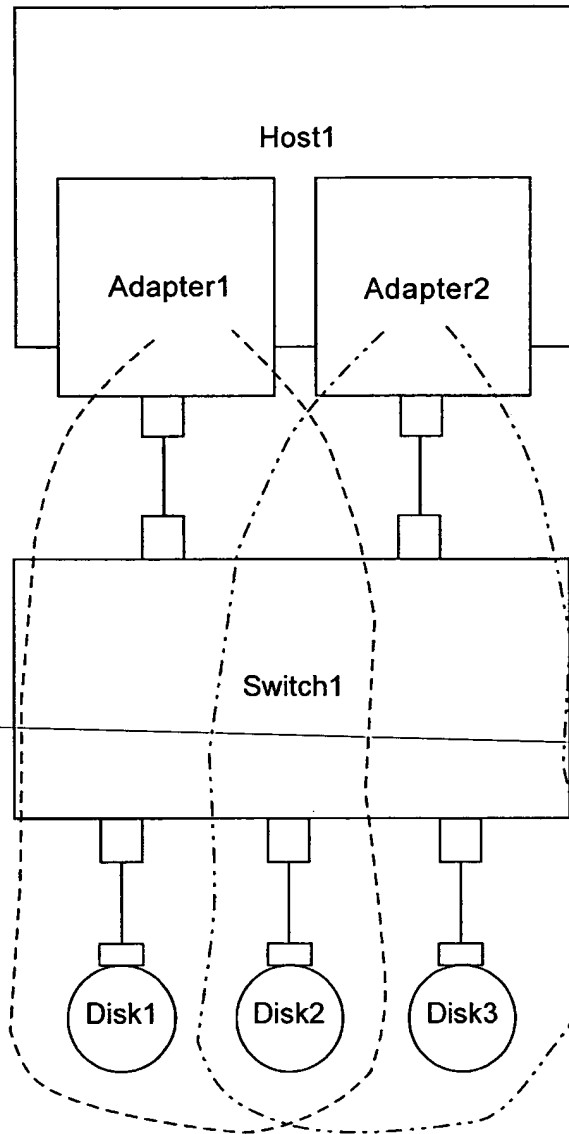


Figure 23

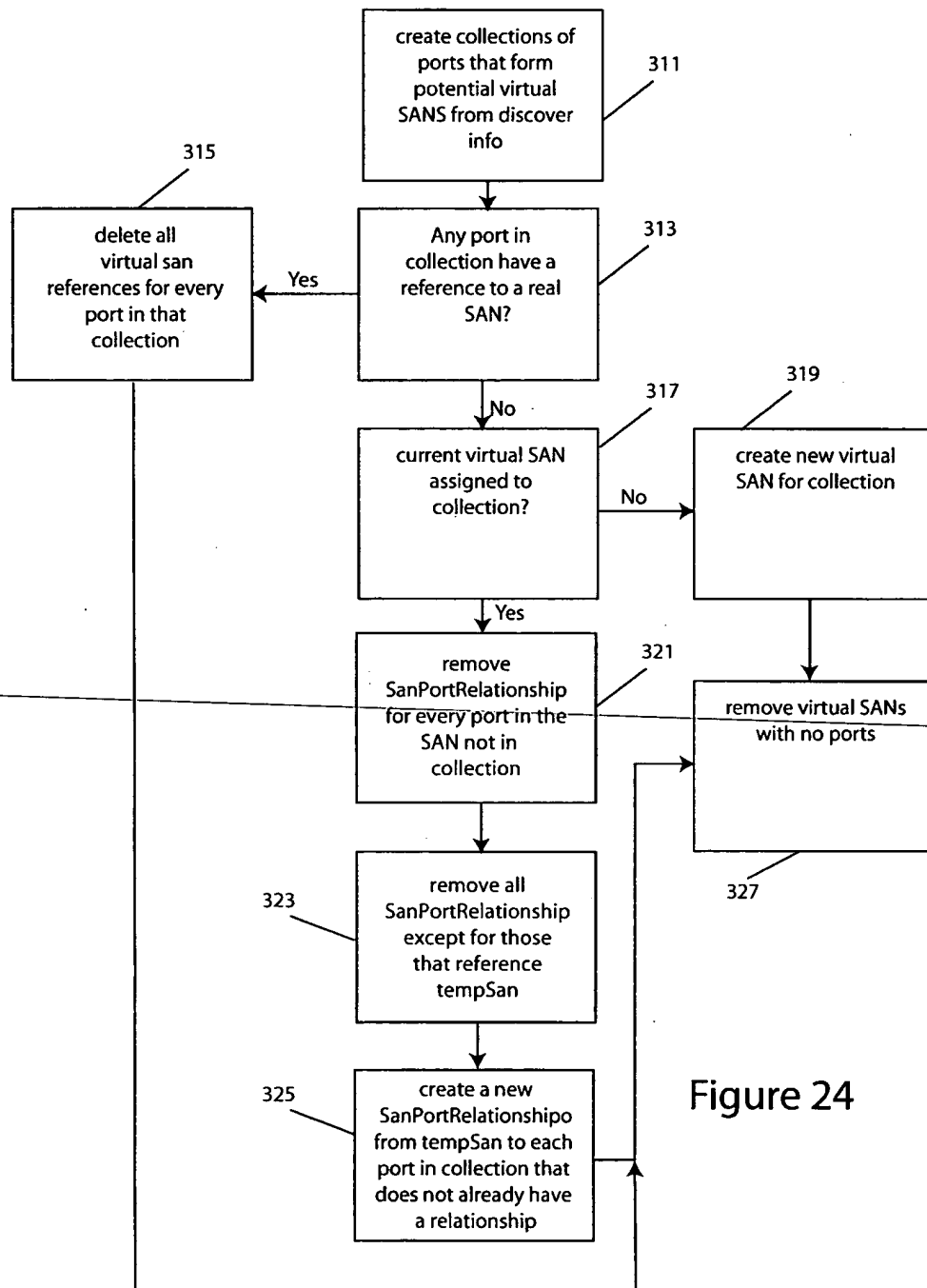


Figure 24

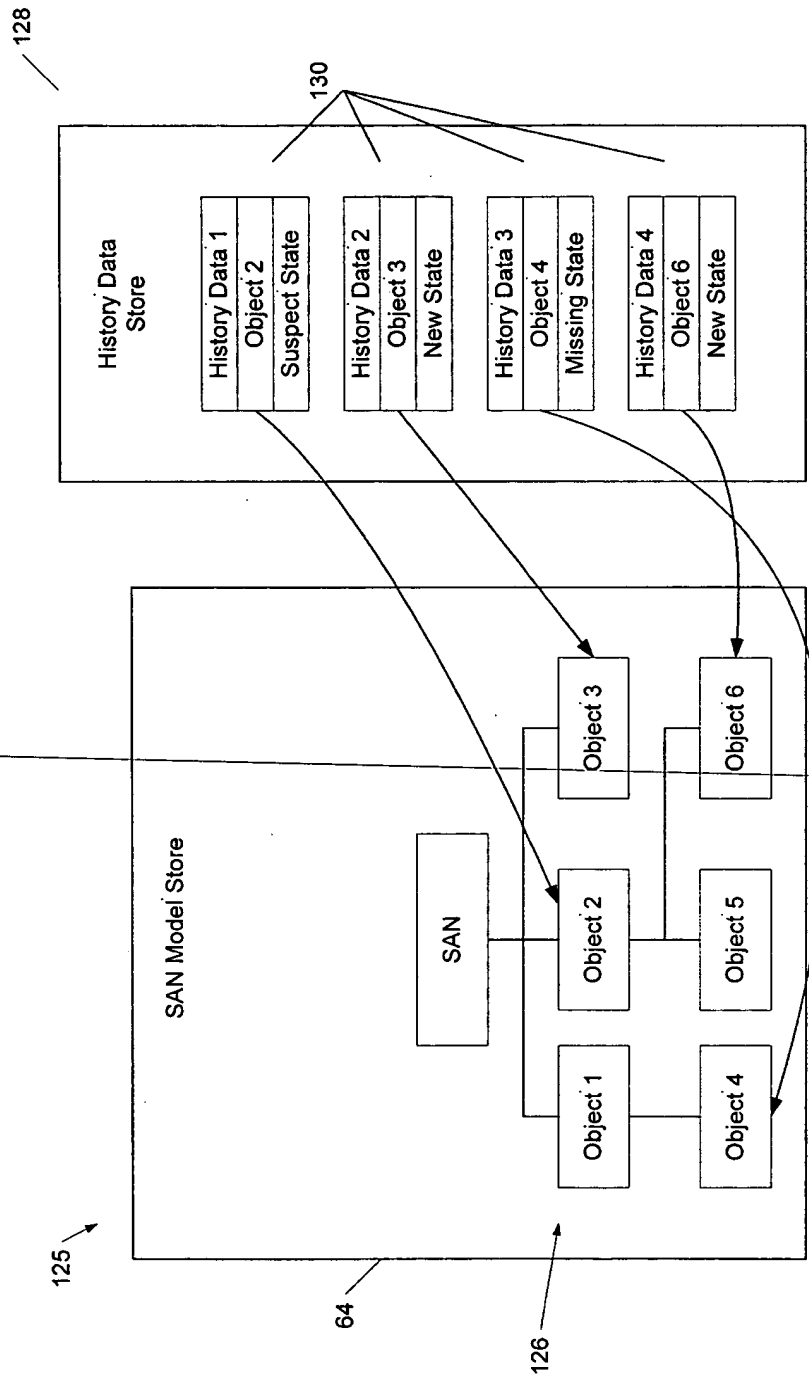


FIGURE 25

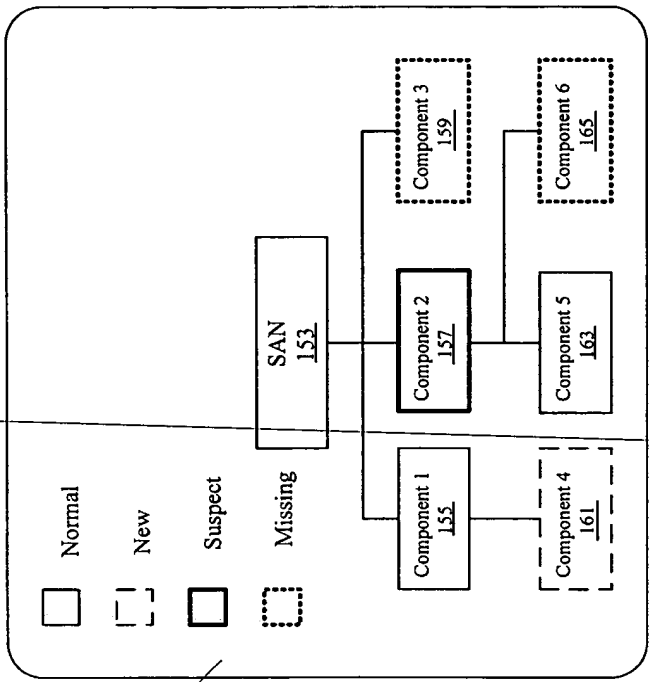


FIGURE 26

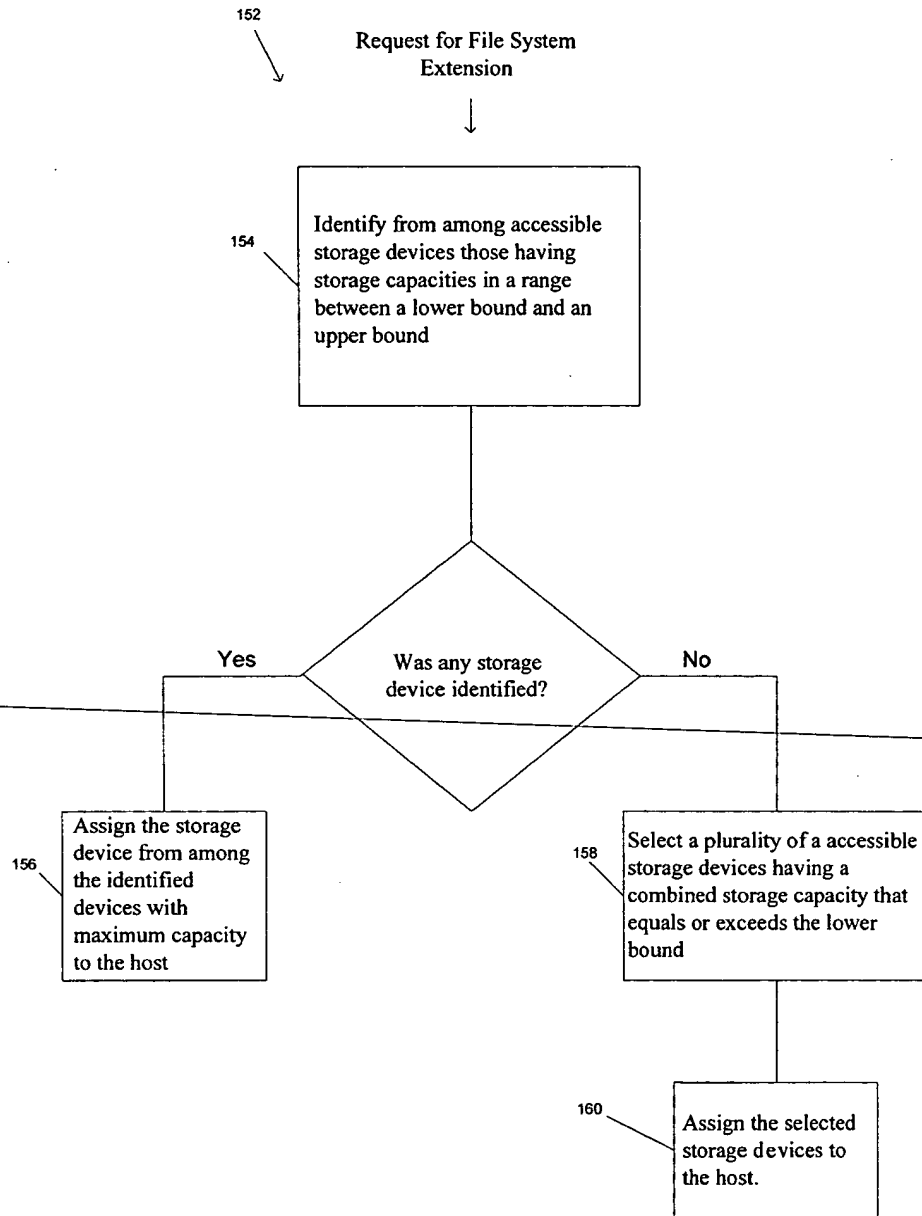
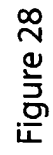


Figure 27



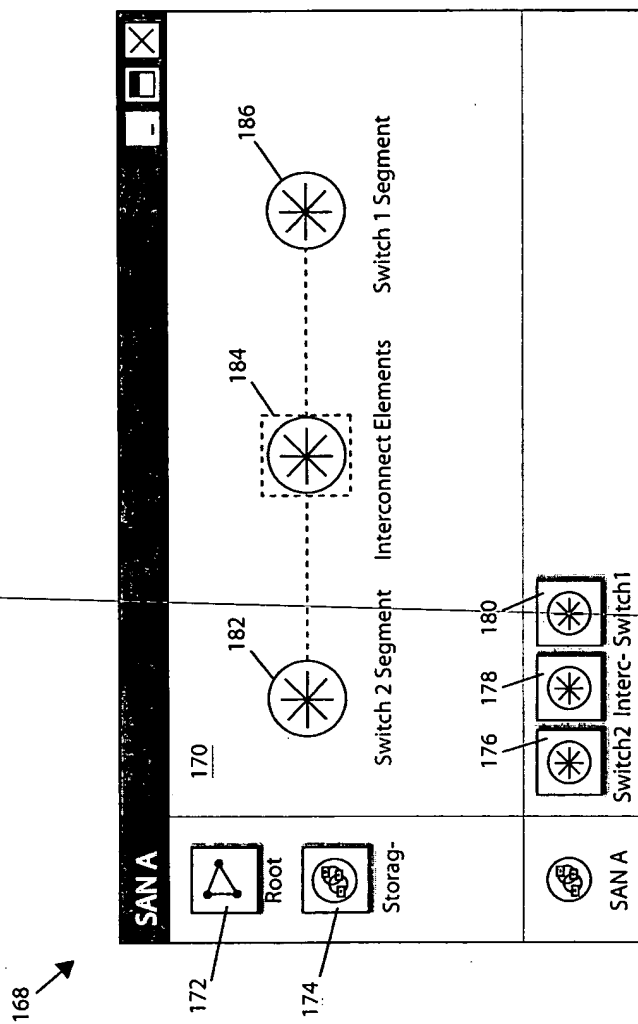


Figure 29

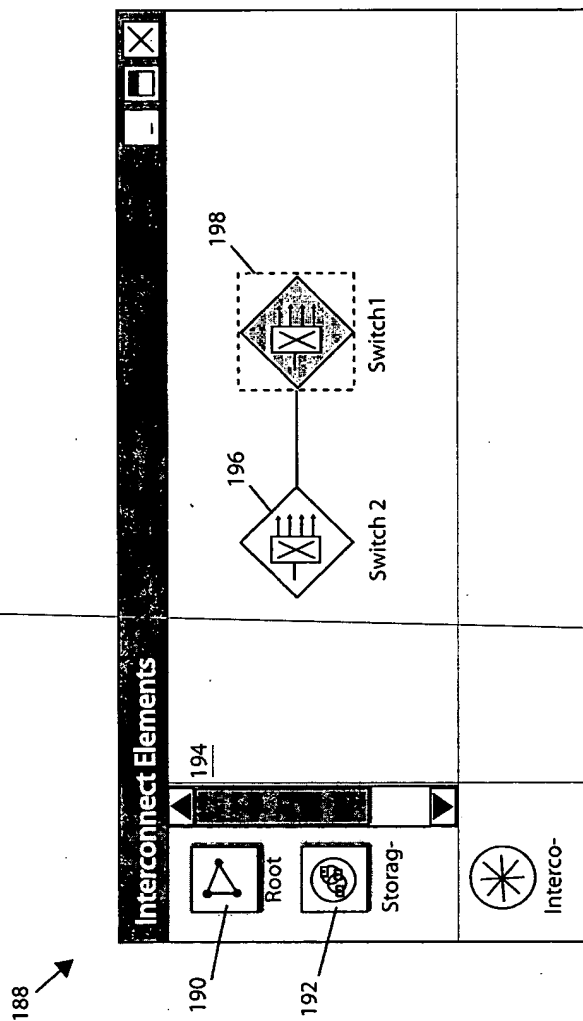


Figure 30

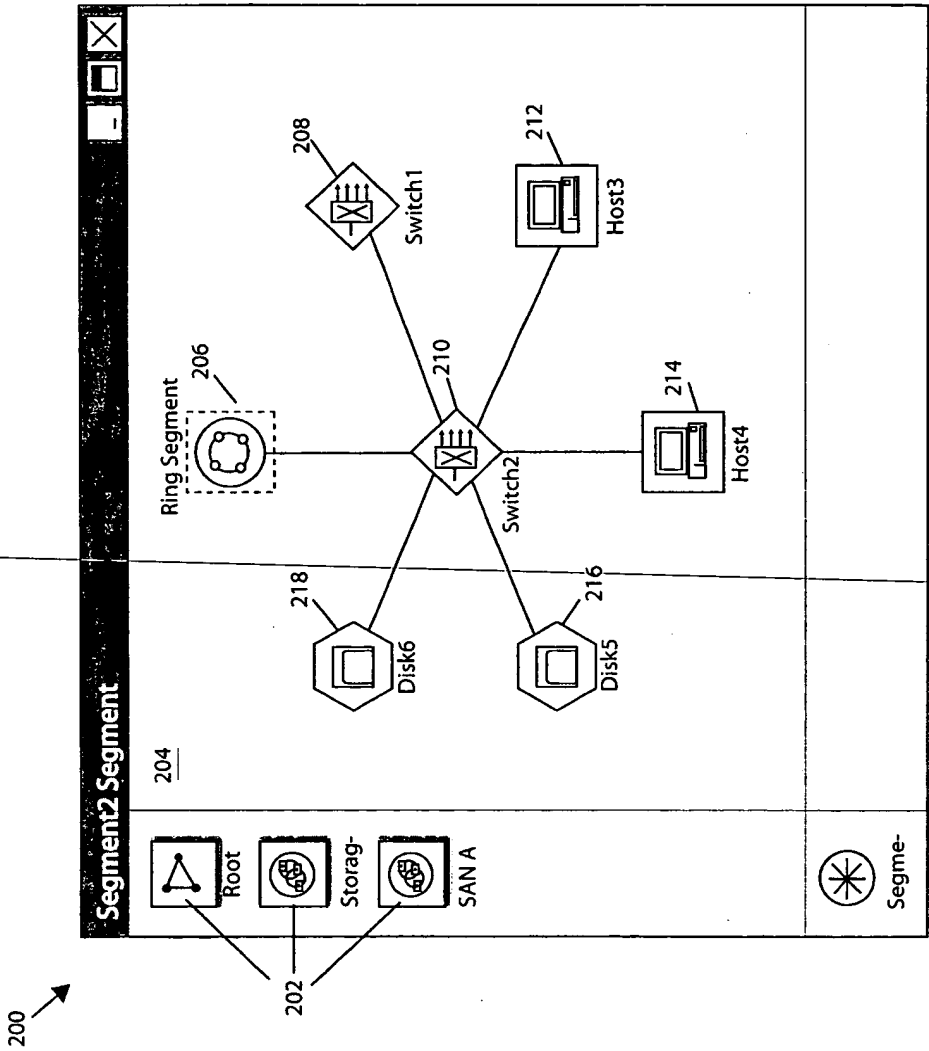


Figure 31

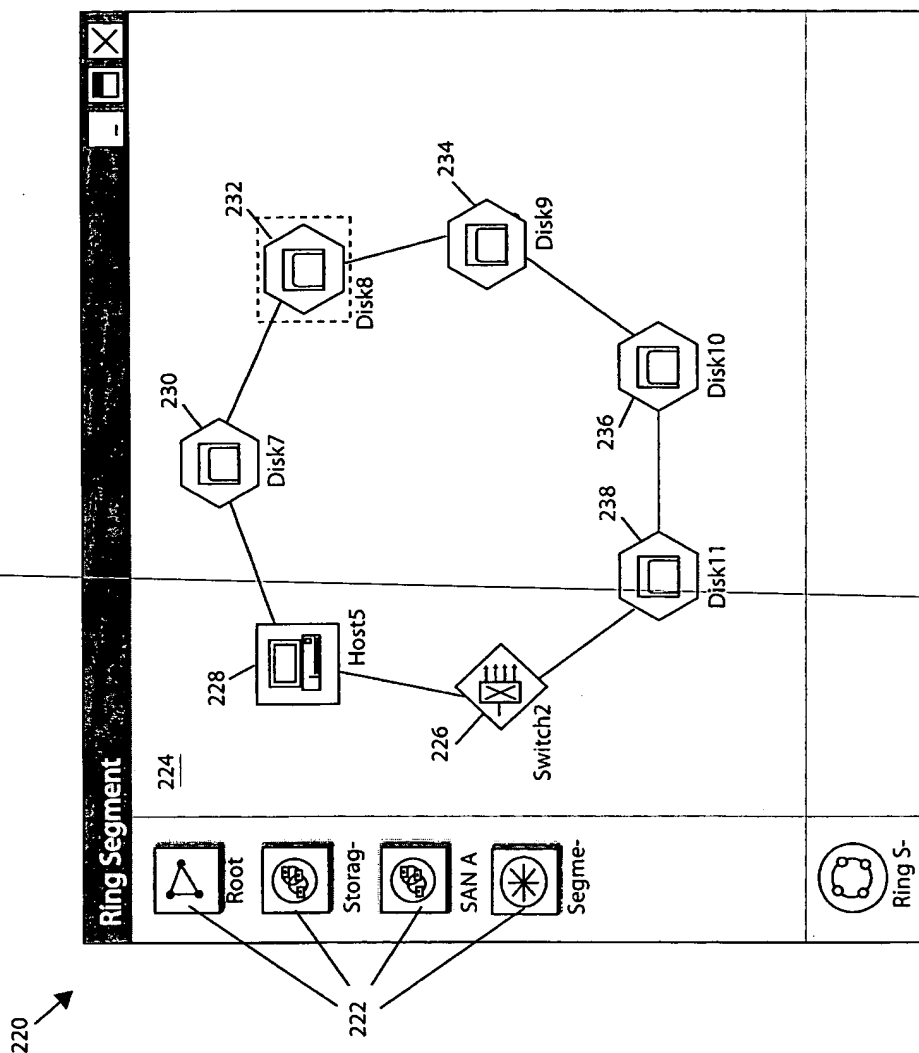
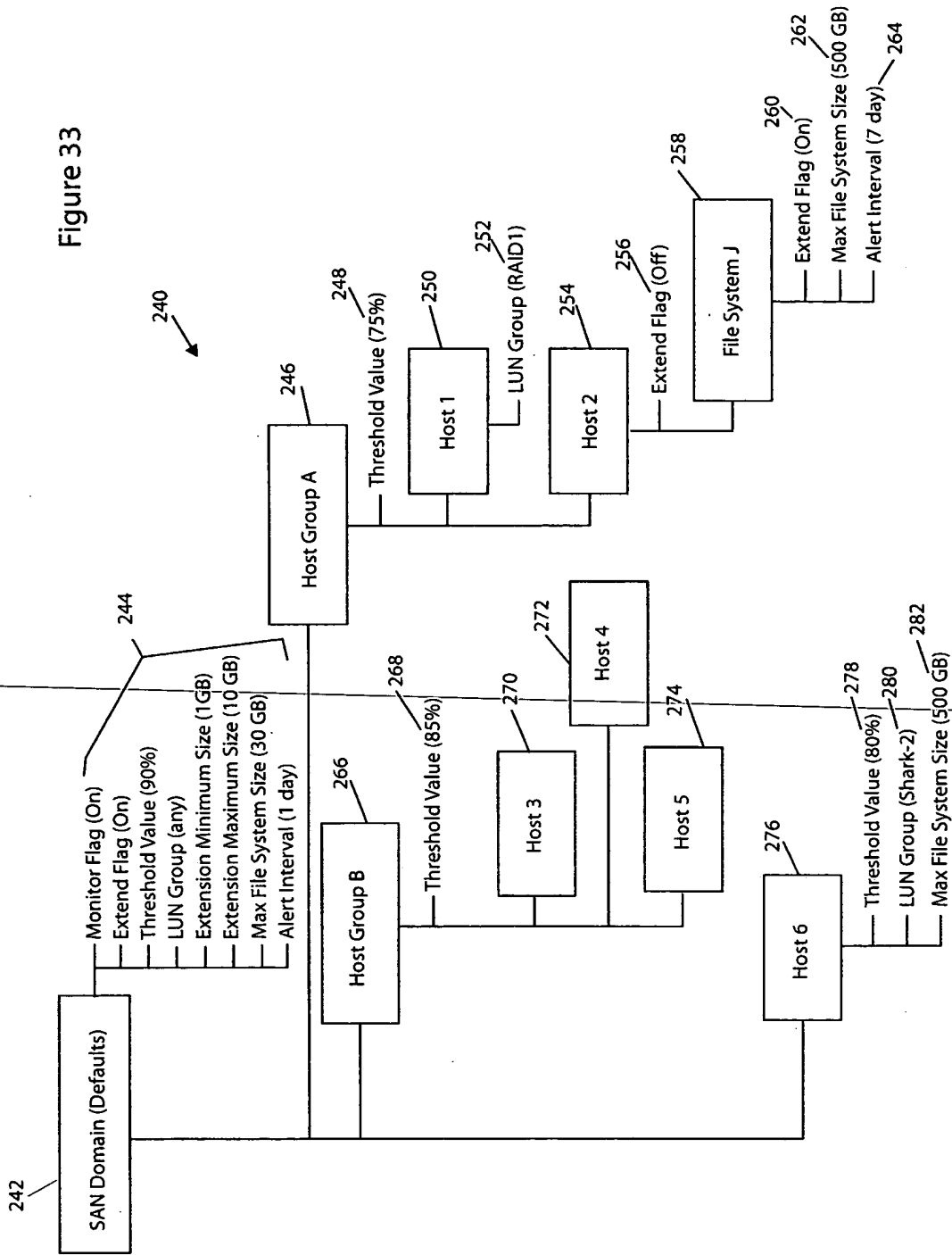


Figure 32



IBM DOCKET NO. SJ09-2001-0097

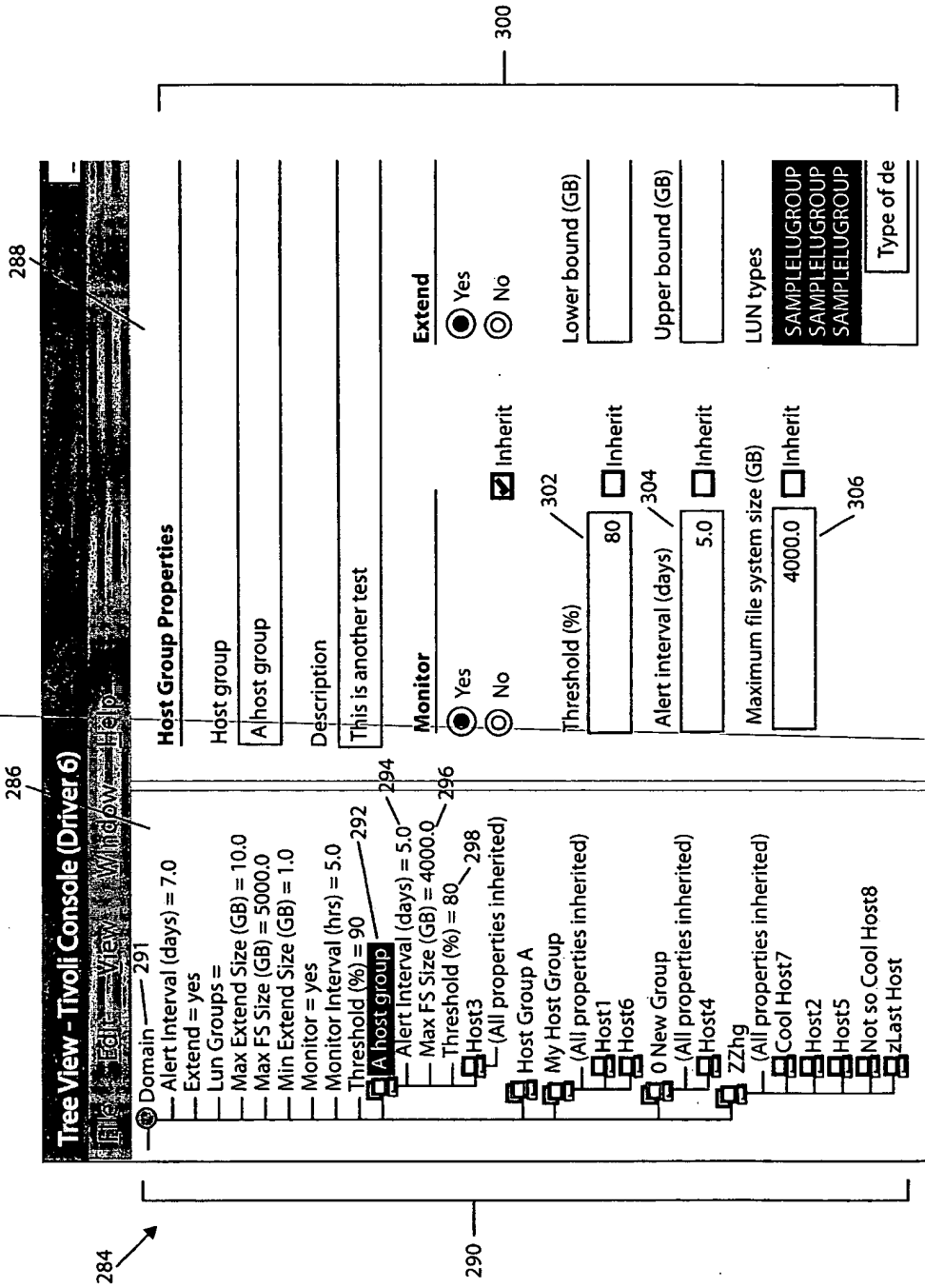
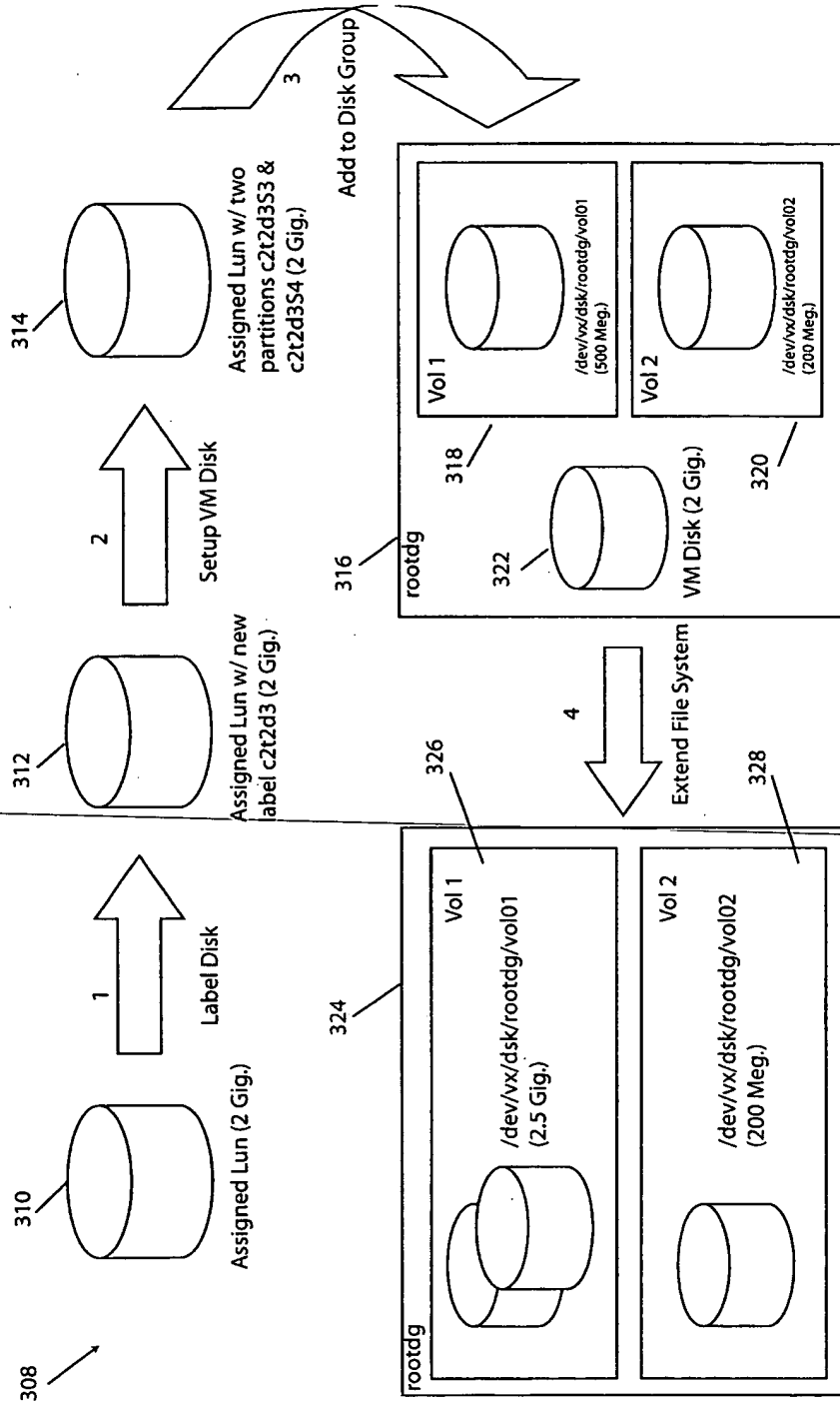


Figure 34

Figure 35



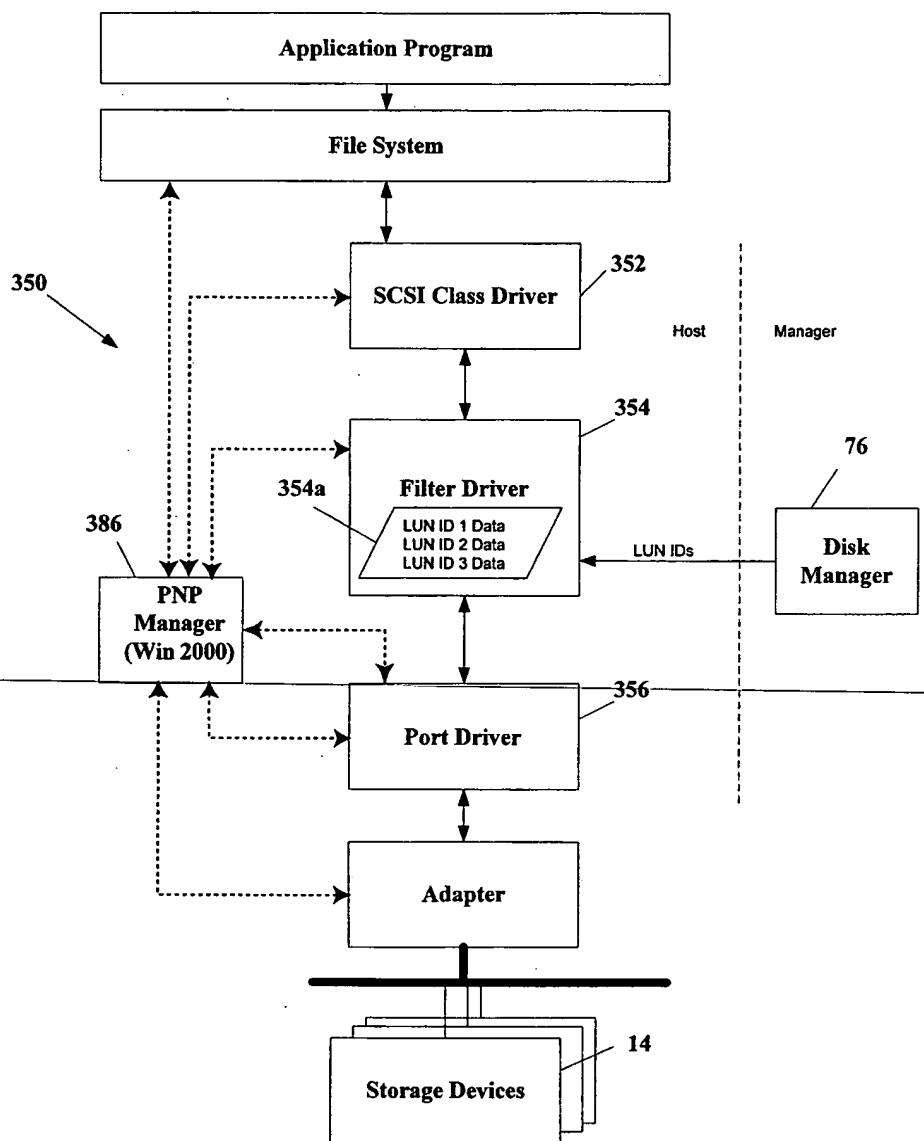
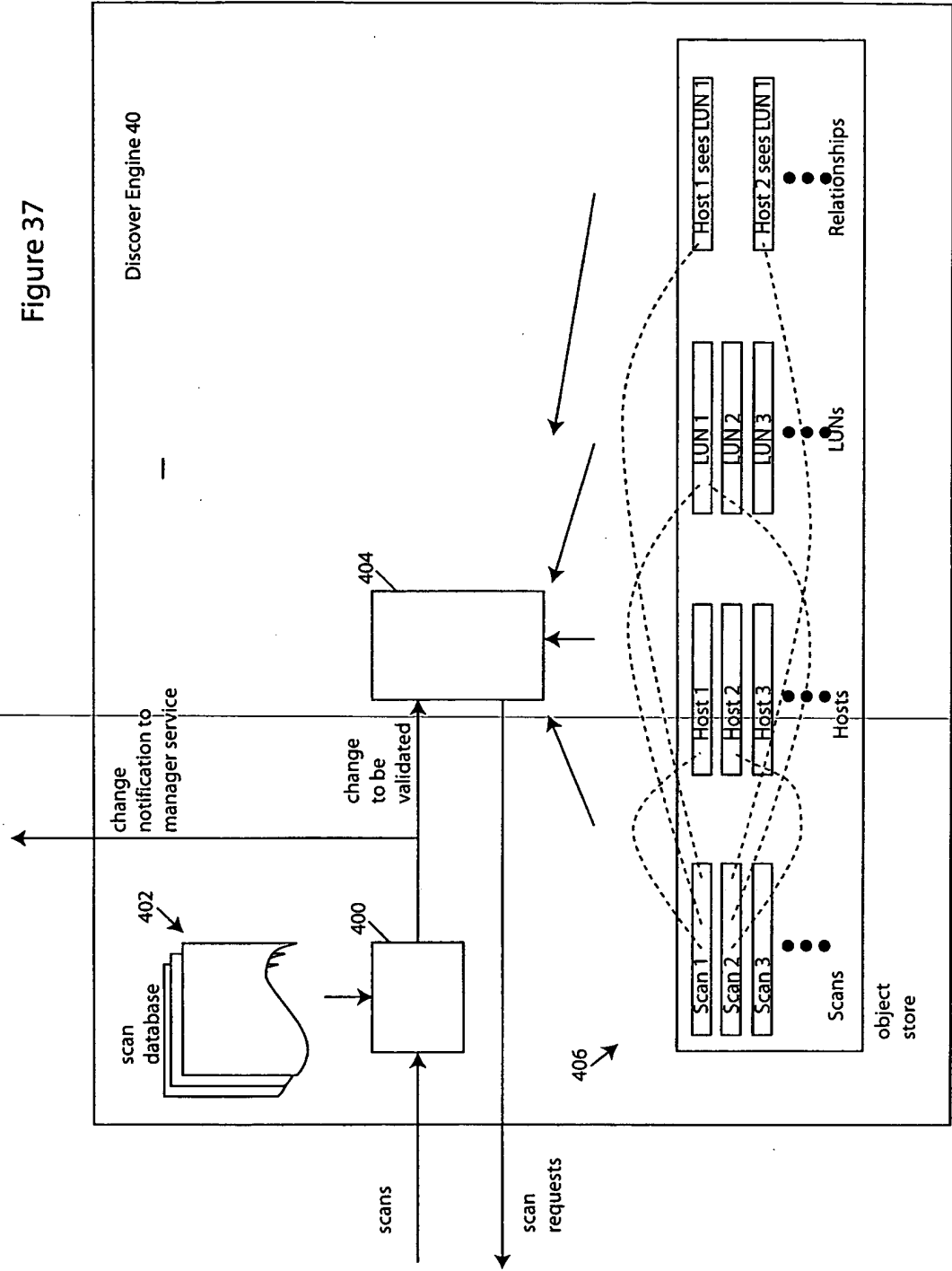


FIGURE 36

Figure 37



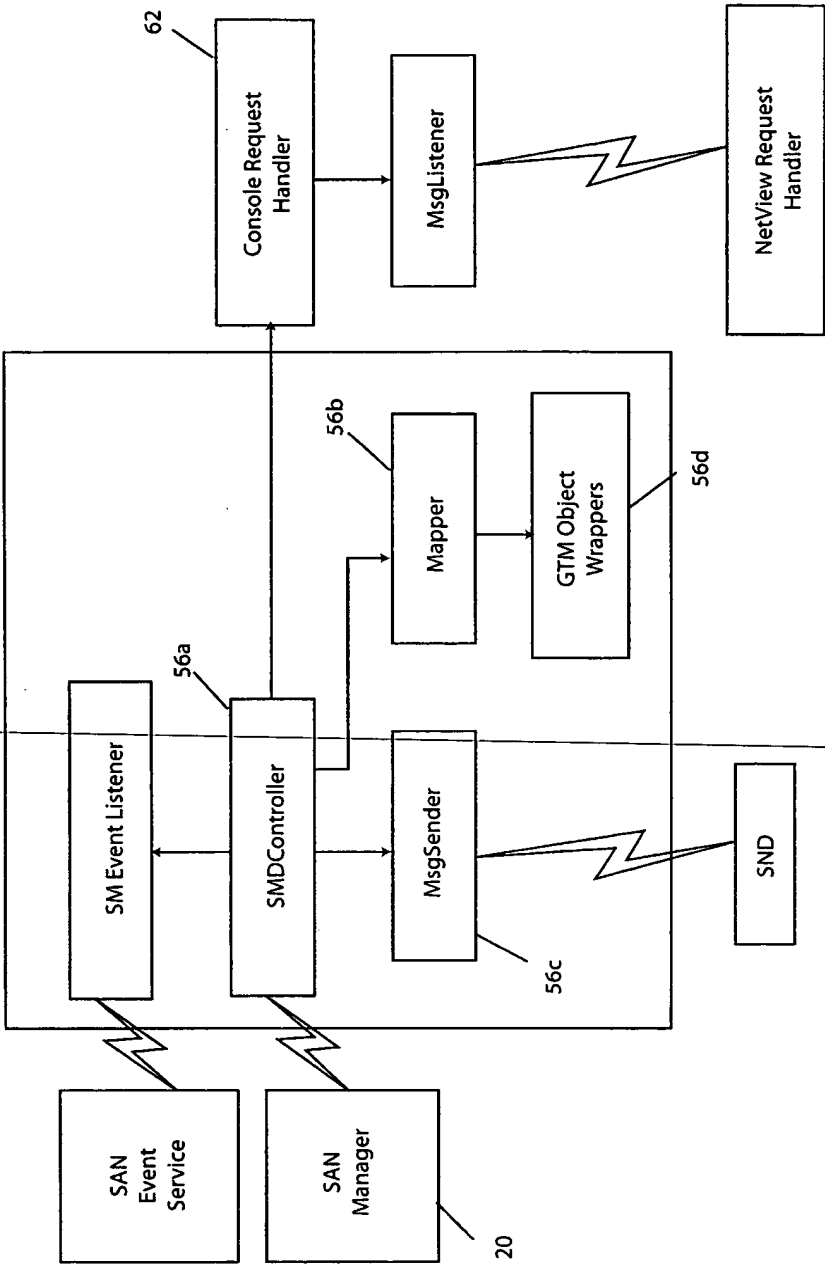


Figure 38

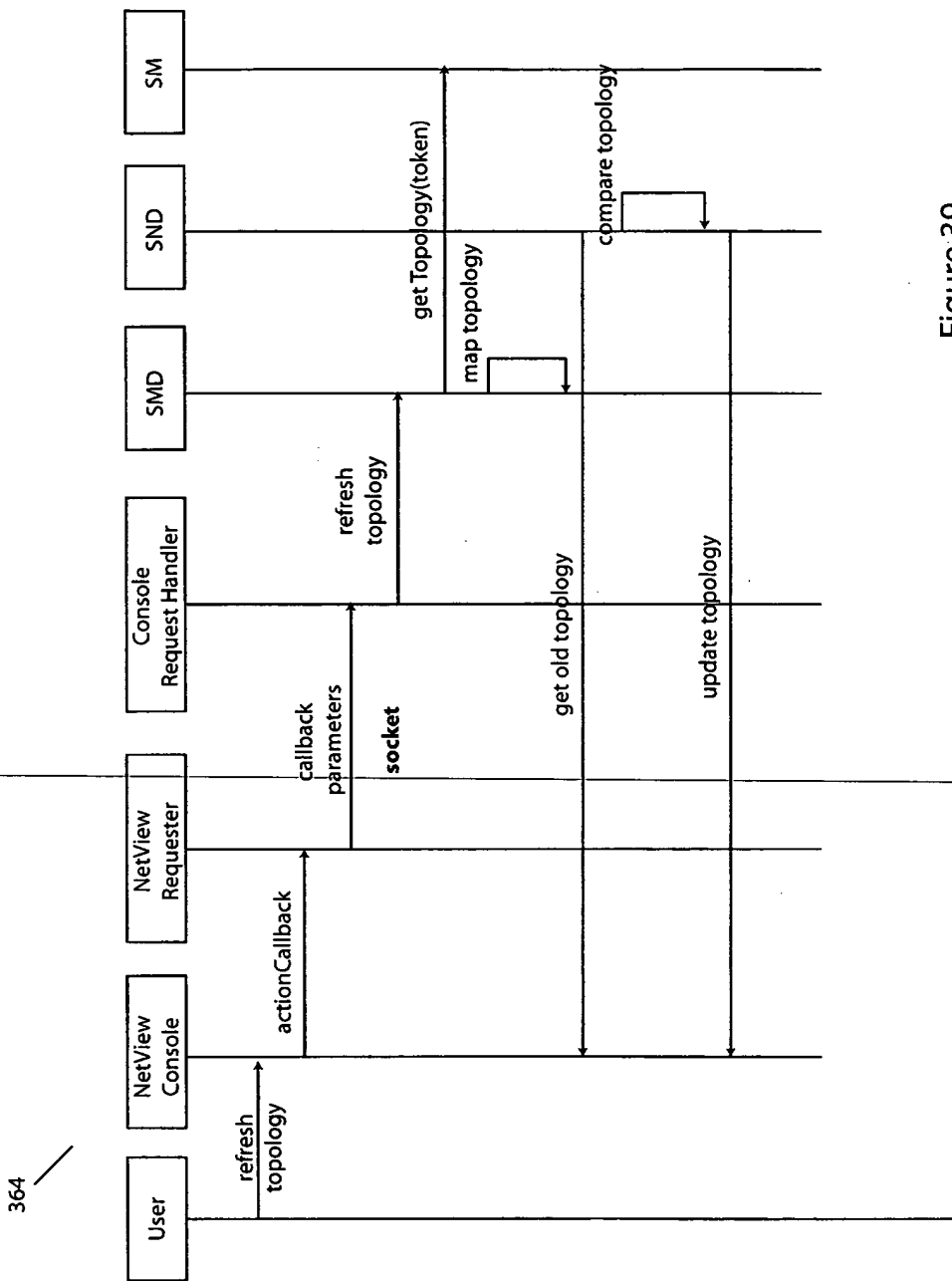


Figure 39

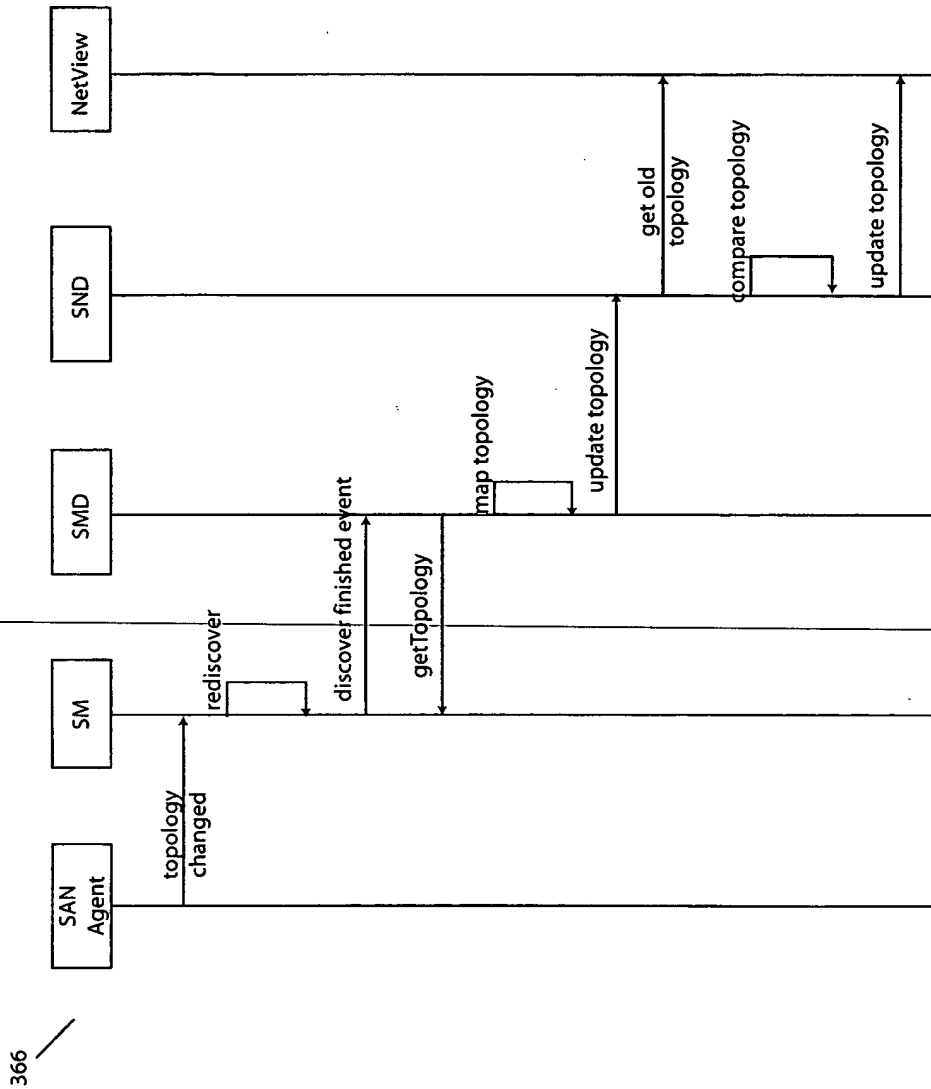
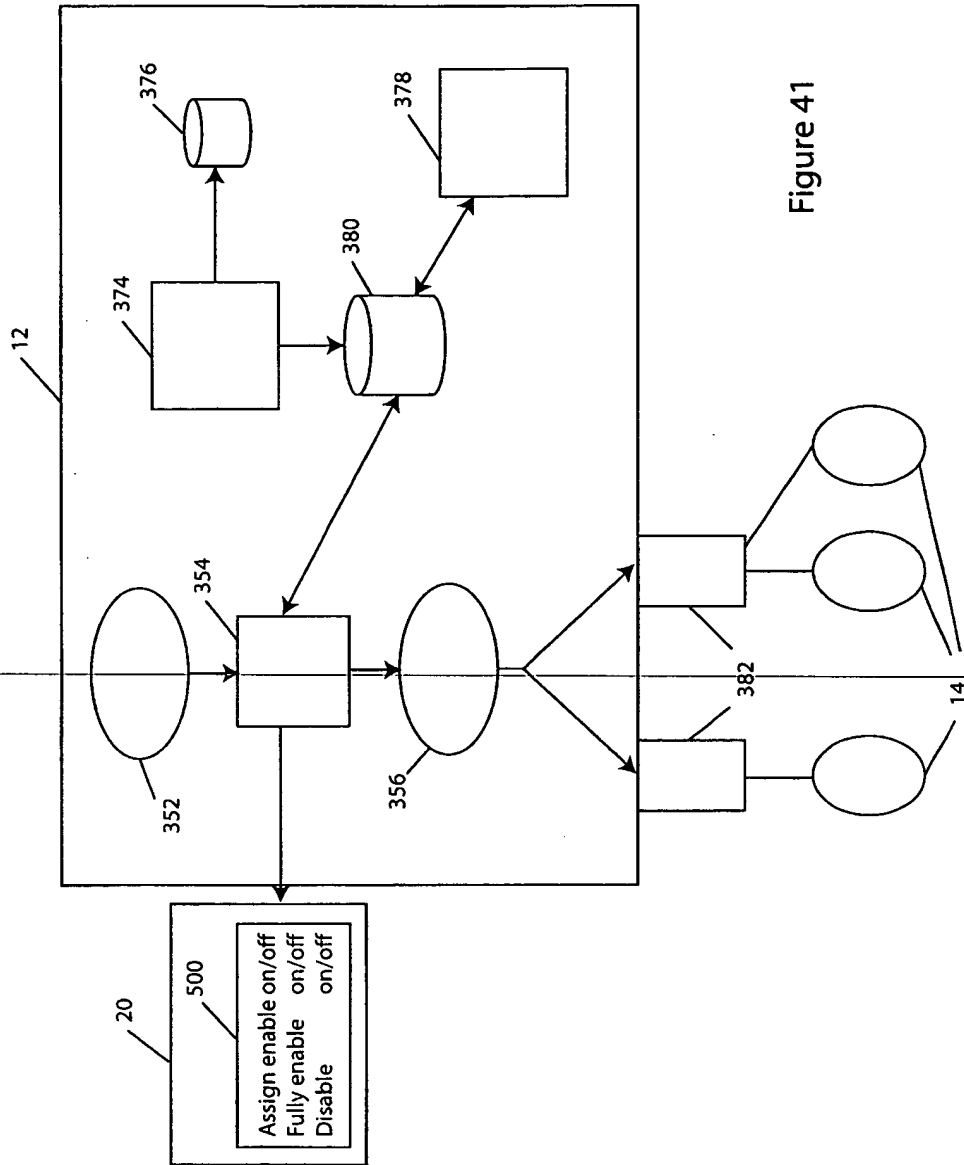
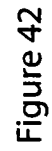


Figure 40

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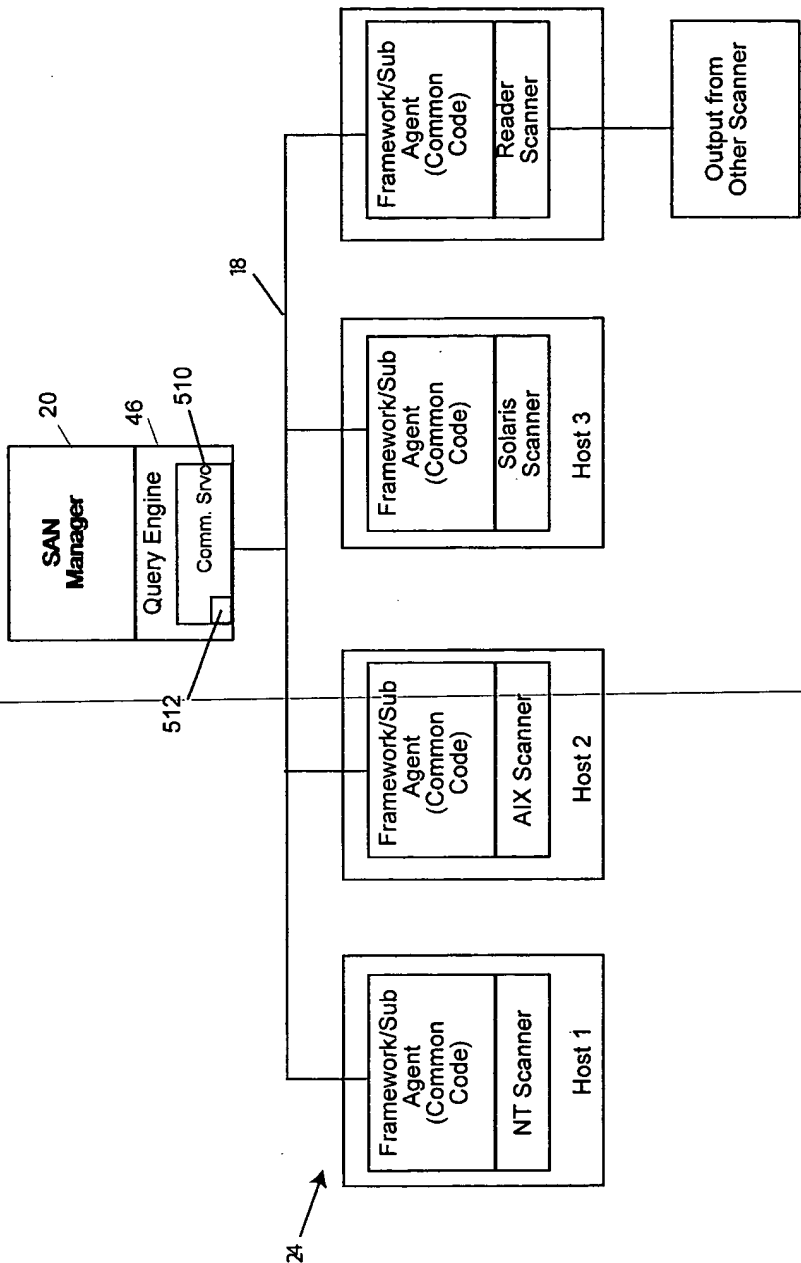


Figure 43